

There are more than 10,000 predictions to display.

To enable speedy output, the format was set to 'text' only.

In order to see the results in an html table (which allows for sorting), limit the number of predictions generated on the previous page.

Predictions

Allele	Position	PepLength	Sequence	Proteasome	TAP	MHC	Processing
HLA B*1517	1:136-144	9	QAYRKPITY	1.611085	1.319091		-0.971174
	2.930176	1.959003	9.357799				
HLA B*1517	1:192-200	9	VTNDGVIFF	1.493493	1.143500		-0.718773
	2.636993	1.918220	5.233271				
HLA B*1517	1:130-138	9	KAFDWDQAY	1.345340	1.365092		-0.850156
	2.710432	1.860276	7.082009				
HLA B*1517	1:83-91	9	SSTPREAPY	1.031192	1.298355		-0.699634
	2.329547	1.629912	5.007654				
HLA B*3501	1:130-138	9	KAFDWDQAY	1.345340	1.365092		-1.104422
	2.710432	1.606010	12.718105				
HLA B*1517	1:20-28	9	VATAAPKTY	1.520765	1.290711		-1.310068
	2.811476	1.501408	20.420583				
HLA A*0211	1:6-14	9	FMLVTAVVL	1.561991	0.439907		-0.565704
	2.001898	1.436193	3.678784				
HLA A*0250	1:7-15	9	MLVTAVVLL	1.492026	0.433820		-0.550635
	1.925846	1.375212	3.553323				
HLA A*0212	1:6-14	9	FMLVTAVVL	1.561991	0.439907		-0.641550
	2.001898	1.360347	4.380769				
HLA A*0219	1:6-14	9	FMLVTAVVL	1.561991	0.439907		-0.684927
	2.001898	1.316971	4.840905				
HLA A*0250	1:6-14	9	FMLVTAVVL	1.561991	0.439907		-0.691909
	2.001898	1.309988	4.919367				
HLA A*0202	1:7-15	9	MLVTAVVLL	1.492026	0.433820		-0.622158

	1.925846	1.303689	4.189457			
HLA A*3002	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-1.454825
	2.710432	1.255608	28.498671			
HLA B*1503	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-1.497068
	2.710432	1.213364	31.410030			
HLA A*2902	1:52-609		INISLPSYY	1.208811	1.305102	-1.326688
	2.513913	1.187225	21.217216			
HLA B*3901	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-0.819453
	2.001898	1.182444	6.598624			
HLA A*0216	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-0.836868
	2.001898	1.165030	6.868593			
HLA A*3002	1:42-509		QIQMSDPAY	1.582564	1.313924	-1.796651
	2.896488	1.099837	62.611078			
HLA B*3501	1:136-144	9	QAYRKPIY	1.611085	1.319091	-1.839271
	2.930176	1.090906	69.067039			
HLA A*3002	1:51-599		NINISLPSY	1.394333	1.278645	-1.615910
	2.672978	1.057068	41.296191			
HLA B*3501	1:42-509		QIQMSDPAY	1.582564	1.313924	-1.863301
	2.896488	1.033187	72.996388			
HLA A*2403	1:58-669		SYYPDQKSL	1.636422	0.572331	-1.179263
	2.208753	1.029490	15.109946			
HLA B*1517	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-0.742395
	1.751039	1.008644	5.525798			
HLA B*1503	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-0.994927
	2.001898	1.006971	9.883870			
HLA A*2602	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-1.653013
	2.636993	0.983980	44.979339			
HLA B*3501	1:20-289		VATAAPKTY	1.520765	1.290711	-1.845849
	2.811476	0.965626	70.121209			
HLA B*5801	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-1.675178
	2.636993	0.961815	47.334534			

HLA B*3501	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-1.281231
	2.240828	0.959597	19.108674			
HLA A*2902	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-1.753139
	2.710432	0.957294	56.642018			
HLA B*1501	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-1.967369
	2.896488	0.929119	92.761863			
HLA B*1501	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-1.792347
	2.710432	0.918085	61.993610			
HLA B*1503	1:136-144	9	QAYRKPITY	1.611085	1.319091	-2.051702
	2.930176	0.878475	112.642395			
HLA B*1503	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-1.964644
	2.823193	0.858549	92.181561			
HLA A*0203	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-1.067817
	1.925846	0.858029	11.690079			
HLA B*1501	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-1.990136
	2.823193	0.833057	97.754322			
HLA A*0211	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-1.098365
	1.925846	0.827481	12.541961			
HLA A*0211	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-0.576559
	1.338234	0.761675	3.771889			
HLA A*0201	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-1.228738
	1.925846	0.697108	16.933174			
HLA B*5801	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-2.045424
	2.710432	0.665008	111.025836			
HLA A*0203	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-0.677103
	1.338234	0.661131	4.754477			
HLA B*1502	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-2.239731
	2.896488	0.656757	173.672542			
HLA A*3002	1:52-60	9	INISLPSYY	1.208811	1.305102	-1.916917
	2.513913	0.596997	82.587937			
HLA A*0211	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-1.137437
	1.732070	0.594633	13.722631			

HLA A*0212	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-1.137757
	1.732070	0.594313	13.732731			
HLA B*1503	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-2.122877
	2.697803	0.574926	132.701910			
HLA A*0206	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-1.437246
	2.001898	0.564652	27.368170			
HLA A*6802	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-1.349920
	1.867525	0.517604	22.383093			
HLA A*0201	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-1.488371
	2.001898	0.513527	30.787226			
HLA A*0216	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-1.413915
	1.925846	0.511931	25.936739			
HLA A*0219	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-1.232963
	1.732070	0.499108	17.098686			
HLA B*1503	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-1.761353
	2.240828	0.479475	57.723482			
HLA B*1501	1:92-100	9	ELNITSATY	1.311755	1.126521	-1.965885
	2.438276	0.472392	92.445247			
HLA A*0250	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-0.874257
	1.338234	0.463976	7.486132			
HLA A*3002	1:92-100	9	ELNITSATY	1.311755	1.126521	-1.977345
	2.438276	0.460931	94.917300			
HLA A*0206	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-1.489245
	1.925846	0.436602	30.849247			
HLA B*5701	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-2.301993
	2.710432	0.408440	200.443747			
HLA B*5701	1:20-28	9	VATAAPKTY	1.520765	1.290711	-2.427972
	2.811476	0.383504	267.899497			
HLA B*4601	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-2.328593
	2.710432	0.381839	213.104873			
HLA A*3002	1:83-91	9	SSTPREAPY	1.031192	1.298355	-1.950745
	2.329547	0.378802	89.278011			

HLA B*1503	1:52-60	9	INISLPSYY	1.208811	1.305102	-2.135141
	2.513913		0.378772	136.502777		
HLA A*0212	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-1.598928
	1.925846		0.326918	39.712563		
HLA B*1517	1:151-159	9	DTDPLPVVF	1.668283	0.943646	-2.302096
	2.611929		0.309833	200.491465		
HLA A*0211	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-0.717885
	1.020870		0.302985	5.222580		
HLA A*0250	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-1.446949
	1.732070		0.285121	27.986535		
HLA B*1501	1:51-59	9	NINISLPSY	1.394333	1.278645	-2.398857
	2.672978		0.274121	250.528466		
HLA A*0206	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-1.071534
	1.338234		0.266699	11.790557		
HLA A*0202	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-1.466835
	1.732070		0.265235	29.297811		
HLA A*3001	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-0.998451
	1.254764		0.256313	9.964402		
HLA A*3002	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-2.571286
	2.823193		0.251907	372.636837		
HLA B*5301	1:140-148	9	KPITYDTLW	1.293618	0.385080	-1.433491
	1.678698		0.245207	27.132592		
HLA A*3201	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-2.468557
	2.710432		0.241875	294.141906		
HLA A*2403	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-1.596879
	1.838116		0.241236	39.525664		
HLA A*3101	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-1.350268
	1.590000		0.239732	22.401022		
HLA B*0702	1:85-93	9	TPREAPYEL	1.651184	0.319388	-1.739921
	1.970572		0.230651	54.944031		
HLA A*3201	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-1.580597
	1.793265		0.212667	38.071259		

HLA B*1502	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.225926
	2.438276	0.212351	168.238577			
HLA A*0216	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-1.131799
	1.338234	0.206435	13.545611			
HLA A*3001	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-0.836553
	1.037888	0.201335	6.863615			
HLA B*1503	1:20-28	9	VATAAPKTY	1.520765	1.290711	-2.610621
	2.811476	0.200855	407.963080			
HLA A*0206	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-0.827747
	1.020870	0.193123	6.725848			
HLA B*1502	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-2.641427
	2.823193	0.181766	437.952802			
HLA A*0219	1:7-15	9	MLVTAVLL	1.492026	0.433820	-1.748322
	1.925846	0.177524	56.017313			
HLA A*2603	1:136-144	9	QAYRKPITY	1.611085	1.319091	-2.758916
	2.930176	0.171261	574.004975			
HLA A*2902	1:136-144	9	QAYRKPITY	1.611085	1.319091	-2.759841
	2.930176	0.170335	575.229769			
HLA B*3501	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.268945
	2.438276	0.169332	185.756772			
HLA A*2602	1:51-59	9	NINISLPSY	1.394333	1.278645	-2.514029
	2.672978	0.158949	326.609517			
HLA A*6801	1:79-87	9	SAATSSTPR	0.650358	0.717768	-1.213283
	1.368126	0.154843	16.341181			
HLA A*2602	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-2.742164
	2.896488	0.154325	552.285738			
HLA A*3201	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-1.184418
	1.338234	0.153816	15.290359			
HLA B*5301	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-2.129569
	2.240828	0.111259	134.762329			
HLA A*2902	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-2.806338
	2.896488	0.090151	640.232420			

HLA A*0201	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-1.248211
	1.338234	0.090023	17.709687			
HLA A*1101	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-0.966649
	1.037888	0.071240	9.260802			
HLA B*1501	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-2.567320
	2.636993	0.069673	369.249447			
HLA A*0206	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-1.435573
	1.478828	0.043255	27.262955			
HLA A*3101	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-1.611169
	1.653995	0.042826	40.847806			
HLA B*5801	1:136-144	9	QAYRKPIY	1.611085	1.319091	-2.909292
	2.930176	0.020884	811.506672			
HLA A*0202	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-1.320725
	1.338234	0.017508	20.927888			
HLA A*2501	1:51-59	9	NINISLPSY	1.394333	1.278645	-2.659368
	2.672978	0.013610	456.423479			
HLA B*0702	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-2.230352
	2.240828	0.010476	169.962072			
HLA A*0219	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-1.470280
	1.478828	0.008549	29.531093			
HLA B*1517	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.448412
	2.438276	-0.010136	280.809902			
HLA A*0202	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.038117
	2.001898	-0.036220	109.173480			
HLA A*0250	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-1.110498
	1.020870	-0.089628	12.897282			
HLA A*0202	1:199-207	9	FFFNPGELL	1.344812	0.501173	-1.943503
	1.845985	-0.097519	87.801794			
HLA A*2902	1:51-59	9	NINISLPSY	1.394333	1.278645	-2.777683
	2.672978	-0.104705	599.353910			
HLA A*2403	1:199-207	9	FFFNPGELL	1.344812	0.501173	-1.950989
	1.845985	-0.105004	89.328255			

HLA A*0206	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-1.903952
	1.793265	-0.110688	80.158976			
HLA B*5801	1:20-289		VATAAPKTY	1.520765	1.290711	-2.936227
	2.811476	-0.124751	863.428920			
HLA A*0250	1:12-209		VVLLCCSGV	1.181551	0.297277	-1.616324
	1.478828	-0.137495	41.335530			
HLA A*6901	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-2.007771
	1.867525	-0.140247	101.805491			
HLA B*1503	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-2.779112
	2.636993	-0.142119	601.328558			
HLA A*6802	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-2.074647
	1.925846	-0.148801	118.753644			
HLA B*1503	1:42-509		QIQMSDPAY	1.582564	1.313924	-3.057991
	2.896488	-0.161503	1142.854652			
HLA A*3201	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.092622
	2.930176	-0.162446	1237.720002			
HLA B*1503	1:139-147	9	RKPITYDTL	1.549612	0.515162	-2.235892
	2.064774	-0.171118	172.144084			
HLA A*6901	1:44-529		QMSDPAYNI	1.440627	0.291443	-1.912753
	1.732070	-0.180683	81.800005			
HLA B*1517	1:126-134	9	TTYKAFDW	1.082766	0.285902	-1.551464
	1.368668	-0.182795	35.601117			
HLA A*0101	1:151-159	9	DTDPLPVVF	1.668283	0.943646	-2.803781
	2.611929	-0.191853	636.475106			
HLA A*2501	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.637335
	2.438276	-0.199058	433.844910			
HLA A*0206	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-2.858726
	2.636993	-0.221734	722.314742			
HLA A*0301	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.157863
	2.930176	-0.227686	1438.344473			
HLA A*0203	1:77-859		FLSAATSST	0.627583	-0.297236	-0.569073
	0.330347	-0.238726	3.707434			

HLA A*3201	1:44-52 9	QMSDPAYNI	1.440627	0.291443	-1.972383
	1.732070	-0.240313	93.838976		
HLA A*3002	1:20-28 9	VATAAPKTY	1.520765	1.290711	-3.072266
	2.811476	-0.260791	1181.045071		
HLA A*8001	1:136-144	9 QAYRKPITY	1.611085	1.319091	-3.209035
	2.930176	-0.278858	1618.209298		
HLA A*0203	1:6-14 9	FMLVTAVVL	1.561991	0.439907	-2.292924
	2.001898	-0.291026	196.301447		
HLA B*1517	1:42-50 9	QIQMSDPAY	1.582564	1.313924	-3.192114
	2.896488	-0.295625	1556.373047		
HLA A*2501	1:69-77 9	YIAQTRDKF	1.072862	1.215486	-2.600570
	2.288348	-0.312222	398.629803		
HLA B*3501	1:179-187	9 NAGLDPVNY	1.458021	1.175151	-2.952551
	2.633172	-0.319378	896.501071		
HLA A*3201	1:191-199	9 AVTNDGVIF	1.536436	1.161367	-3.017223
	2.697803	-0.319420	1040.453647		
HLA A*0202	1:77-85 9	FLSAATSST	0.627583	-0.297236	-0.650680
	0.330347	-0.320333	4.473840		
HLA B*3501	1:85-93 9	TPREAPYEL	1.651184	0.319388	-2.292989
	1.970572	-0.322418	196.331184		
HLA B*5801	1:140-148	9 KPITYDTLW	1.293618	0.385080	-2.003439
	1.678698	-0.324740	100.794945		
HLA B*1502	1:121-129	9 GGTHPTTTY	1.498809	1.127203	-2.954285
	2.626012	-0.328272	900.087504		
HLA A*0203	1:44-52 9	QMSDPAYNI	1.440627	0.291443	-2.060813
	1.732070	-0.328743	115.030545		
HLA B*5701	1:136-144	9 QAYRKPITY	1.611085	1.319091	-3.269327
	2.930176	-0.339151	1859.204562		
HLA B*3501	1:83-91 9	SSTPREAPY	1.031192	1.298355	-2.673108
	2.329547	-0.343561	471.094209		
HLA B*1801	1:109-117	9 TQAVVLKVY	1.536032	1.287161	-3.172759
	2.823193	-0.349566	1488.533606		

HLA A*6802	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-2.084820
	1.732070	-0.352750	121.568264			
HLA A*3201	1:151-159	9	DTDPLPVVF	1.668283	0.943646	-2.971826
	2.611929	-0.359897	937.186421			
HLA A*2301	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-2.139751
	1.779223	-0.360528	137.959361			
HLA A*3301	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-1.957055
	1.590000	-0.367056	90.584777			
HLA B*1502	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.083149
	2.710432	-0.372717	1211.014340			
HLA B*3901	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-2.308374
	1.925846	-0.382527	203.410662			
HLA B*0702	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-1.310482
	0.927533	-0.382949	20.440036			
HLA A*0250	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-1.190653
	0.804086	-0.386567	15.511479			
HLA B*1503	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-2.675316
	2.288348	-0.386968	473.495964			
HLA A*6802	1:96-104	9	TSATYQSAI	0.928477	0.250556	-1.568685
	1.179033	-0.389653	37.041226			
HLA A*0201	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-2.126918
	1.732070	-0.394848	133.942465			
HLA A*2602	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-2.262690
	1.867525	-0.395166	183.100836			
HLA A*8001	1:52-60	9	INISLPSYY	1.208811	1.305102	-2.910382
	2.513913	-0.396469	813.546265			
HLA A*0250	1:77-85	9	FLSAATSST	0.627583	-0.297236	-0.735751
	0.330347	-0.405403	5.441901			
HLA B*4001	1:87-95	9	REAPYELNI	1.162222	0.222672	-1.795317
	1.384894	-0.410423	62.418981			
HLA A*2902	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-3.048377
	2.636993	-0.411384	1117.832952			

HLA B*1501	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.346855
	2.930176	-0.416679	2222.570177			
HLA A*6901	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-1.451451
	1.020870	-0.430581	28.278134			
HLA A*3201	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-3.072600
	2.636993	-0.435607	1181.952703			
HLA A*0250	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-1.334733
	0.895143	-0.439590	21.613895			
HLA A*3002	1:121-129	9	GGTHPTTTY	1.498809	1.127203	-3.069832
	2.626012	-0.443820	1174.444247			
HLA B*0702	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-1.537691
	1.076055	-0.461636	34.489821			
HLA B*1502	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-2.751938
	2.288348	-0.463590	564.855922			
HLA A*2902	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.905932
	2.438276	-0.467656	805.252962			
HLA A*2602	1:83-91	9	SSTPREAPY	1.031192	1.298355	-2.806234
	2.329547	-0.476688	640.080040			
HLA A*3101	1:79-87	9	SAATSSTPR	0.650358	0.717768	-1.845417
	1.368126	-0.477291	70.051444			
HLA A*2602	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-3.177425
	2.697803	-0.479622	1504.612692			
HLA A*0216	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-1.394048
	0.895143	-0.498905	24.776966			
HLA A*2403	1:147-155	9	LWQADTDPL	0.954861	0.515252	-1.969132
	1.470113	-0.499019	93.139001			
HLA B*5801	1:126-134	9	TTYKAFDW	1.082766	0.285902	-1.867906
	1.368668	-0.499238	73.774515			
HLA A*6802	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-2.256018
	1.751039	-0.504979	180.309160			
HLA B*1501	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.517652
	2.001898	-0.515754	329.345505			

HLA B*1503	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-2.442778
	1.925846	-0.516932	277.190507			
HLA B*1501	1:83-91	9	SSTPREAPY	1.031192	1.298355	-2.847012
	2.329547	-0.517465	703.091660			
HLA B*1517	1:121-129	9	GGTHPTTTY	1.498809	1.127203	-3.147163
	2.626012	-0.521151	1403.341454			
HLA B*5301	1:179-187	9	NAGLDPVNY	1.458021	1.175151	-3.161608
	2.633172	-0.528436	1450.801474			
HLA B*3501	1:121-129	9	GGTHPTTTY	1.498809	1.127203	-3.156190
	2.626012	-0.530178	1432.814855			
HLA A*0211	1:199-207	9	FFFNPGELL	1.344812	0.501173	-2.386908
	1.845985	-0.540923	243.729220			
HLA A*6801	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.982573
	2.438276	-0.544296	960.666247			
HLA B*5701	1:126-134	9	TTYKAFDW	1.082766	0.285902	-1.917612
	1.368668	-0.548944	82.720294			
HLA B*3501	1:51-59	9	NINISLPSY	1.394333	1.278645	-3.227332
	2.672978	-0.554355	1687.844689			
HLA A*0211	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-1.800767
	1.245899	-0.554869	63.207335			
HLA B*1503	1:92-100	9	ELNITSATY	1.311755	1.126521	-2.996876
	2.438276	-0.558600	992.832983			
HLA B*1502	1:20-28	9	VATAAPKTY	1.520765	1.290711	-3.371469
	2.811476	-0.559993	2352.169896			
HLA A*2601	1:51-59	9	NINISLPSY	1.394333	1.278645	-3.235889
	2.672978	-0.562911	1721.429756			
HLA B*1502	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.494328
	2.930176	-0.564152	3121.245700			
HLA A*1101	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.497373
	2.930176	-0.567196	3143.206325			
HLA B*1503	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-2.365302
	1.793265	-0.572037	231.900527			

HLA A*2602	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-2.860935
	2.288348	-0.572587	725.997281			
HLA A*2403	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-2.352276
	1.779223	-0.573053	225.048535			
HLA A*0203	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-1.598341
	1.020870	-0.577471	39.658890			
HLA B*1502	1:199-207	9	FFFNPGELL	1.344812	0.501173	-2.424932
	1.845985	-0.578947	266.030643			
HLA A*2602	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-3.402416
	2.823193	-0.579223	2525.899715			
HLA A*2601	1:92-100	9	ELNITSATY	1.311755	1.126521	-3.036211
	2.438276	-0.597935	1086.954274			
HLA B*5301	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.528236
	2.930176	-0.598059	3374.704298			
HLA B*1503	1:83-91	9	SSTPREAPY	1.031192	1.298355	-2.929549
	2.329547	-0.600003	850.255313			
HLA A*0212	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-1.942380
	1.338234	-0.604147	87.575039			
HLA A*0201	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-1.628968
	1.020870	-0.608099	42.556748			
HLA A*2602	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.553948
	2.930176	-0.623772	3580.539660			
HLA A*3002	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.562693
	2.930176	-0.632517	3653.366749			
HLA A*6801	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.570113
	2.930176	-0.639936	3716.318654			
HLA A*2602	1:52-60	9	INISLPSYY	1.208811	1.305102	-3.155711
	2.513913	-0.641798	1431.234448			
HLA B*1502	1:51-59	9	NINISLPSY	1.394333	1.278645	-3.322411
	2.672978	-0.649434	2100.929313			
HLA B*1501	1:52-60	9	INISLPSYY	1.208811	1.305102	-3.163690
	2.513913	-0.649776	1457.772092			

HLA B*1517	1:51-59	9	NINISLPSY	1.394333	1.278645	-3.330137
	2.672978	-0.657159	2138.634395			
HLA B*3501	1:151-159	9	DTDPLPVVF	1.668283	0.943646	-3.280717
	2.611929	-0.668789	1908.611251			
HLA A*2902	1:20-28	9	VATAAPKTY	1.520765	1.290711	-3.480311
	2.811476	-0.668835	3022.114604			
HLA B*1502	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-3.367193
	2.697803	-0.669390	2329.124076			
HLA B*3501	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-2.958805
	2.288348	-0.670457	909.505106			
HLA A*0216	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-1.694077
	1.020870	-0.673208	49.439875			
HLA A*2902	1:83-91	9	SSTPREAPY	1.031192	1.298355	-3.006053
	2.329547	-0.676507	1014.035793			
HLA A*0211	1:192-200	9	VTNDGVIF	1.493493	1.143500	-3.318427
	2.636993	-0.681434	2081.741087			
HLA B*1502	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.687308
	2.001898	-0.685410	486.752345			
HLA B*3501	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-3.384165
	2.697803	-0.686363	2421.950732			
HLA B*3901	1:85-93	9	TPREAPYEL	1.651184	0.319388	-2.664222
	1.970572	-0.693650	461.553462			
HLA A*2902	1:121-129	9	GGTHPTTTY	1.498809	1.127203	-3.328896
	2.626012	-0.702884	2132.534270			
HLA A*1101	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.417147
	2.710432	-0.706715	2613.047923			
HLA A*0216	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-2.439597
	1.732070	-0.707527	275.167507			
HLA A*3101	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-1.748529
	1.037888	-0.710641	56.043988			
HLA A*6801	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-1.749530
	1.037888	-0.711642	56.173296			

HLA B*5301	1:20-289		VATAAPKTY	1.520765	1.290711	-3.524232
	2.811476	-0.712756	3343.737703			
HLA B*1501	1:69-779		YIAQTRDKF	1.072862	1.215486	-3.012721
	2.288348	-0.724373	1029.724684			
HLA B*1503	1:51-599		NINISLPSY	1.394333	1.278645	-3.401246
	2.672978	-0.728268	2519.103784			
HLA B*1501	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-3.428091
	2.697803	-0.730289	2679.731466			
HLA B*1517	1:70-789		IAQTRDKFL	1.739879	0.412578	-2.886018
	2.152457	-0.733561	769.162489			
HLA A*0212	1:13-219		VLLCCSGVA	1.166577	-0.167513	-1.743698
	0.999064	-0.744635	55.424079			
HLA A*3001	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.679500
	2.930176	-0.749324	4780.796613			
HLA A*1101	1:42-509		QIQMSDPAY	1.582564	1.313924	-3.648445
	2.896488	-0.751956	4450.868623			
HLA B*1503	1:121-129	9	GGTHPTTTY	1.498809	1.127203	-3.378216
	2.626012	-0.752204	2389.001422			
HLA A*0301	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-1.790646
	1.037888	-0.752758	61.751271			
HLA B*1503	1:182-190	9	LDPVNYQNF	1.429067	0.948572	-3.137747
	2.377639	-0.760107	1373.240548			
HLA A*1101	1:83-919		SSTPREAPY	1.031192	1.298355	-3.090231
	2.329547	-0.760684	1230.922283			
HLA A*2902	1:179-187	9	NAGLDPVNY	1.458021	1.175151	-3.416297
	2.633172	-0.783125	2607.935591			
HLA B*0702	1:24-329		APKTYCEEL	1.537287	0.413098	-2.747192
	1.950385	-0.796806	558.716795			
HLA B*5701	1:83-919		SSTPREAPY	1.031192	1.298355	-3.129547
	2.329547	-0.800000	1347.556290			
HLA A*8001	1:20-289		VATAAPKTY	1.520765	1.290711	-3.629367
	2.811476	-0.817891	4259.581745			

HLA B*0801	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.822746
	2.001898	-0.820849	664.884893			
HLA B*4801	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.845889
	2.001898	-0.843991	701.275865			
HLA A*3002	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-3.482247
	2.636993	-0.845254	3035.616503			
HLA A*0250	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-1.830023
	0.977336	-0.852687	67.611920			
HLA A*0101	1:83-91	9	SSTPREAPY	1.031192	1.298355	-3.184661
	2.329547	-0.855115	1529.893272			
HLA A*2603	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-3.495766
	2.636993	-0.858773	3131.596810			
HLA B*1517	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-2.192582
	1.328019	-0.864562	155.805109			
HLA A*2403	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-3.155363
	2.288348	-0.867015	1430.088970			
HLA A*0206	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-2.601829
	1.732070	-0.869759	399.787388			
HLA B*4002	1:87-95	9	REAPYELNI	1.162222	0.222672	-2.264640
	1.384894	-0.879746	183.924845			
HLA A*6901	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-1.646077
	0.754093	-0.891985	44.266724			
HLA A*2601	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-3.789010
	2.896488	-0.892521	6151.907036			
HLA B*4801	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-2.695743
	1.793265	-0.902478	496.298204			
HLA B*0702	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-2.772853
	1.867525	-0.905328	592.724394			
HLA A*8001	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.630053
	2.710432	-0.919621	4266.315871			
HLA B*1801	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-3.163032
	2.240828	-0.922204	1455.565576			

HLA B*3501	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-1.850403
	0.927533	-0.922870	70.860253			
HLA A*0216	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-2.172451
	1.245899	-0.926553	148.748059			
HLA A*0206	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.638069
	2.710432	-0.927637	4345.797138			
HLA B*1517	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.933797
	2.001898	-0.931900	858.612532			
HLA A*6801	1:52-60	9	INISLPSY	1.208811	1.305102	-3.446601
	2.513913	-0.932687	2796.407890			
HLA A*6801	1:51-59	9	NINISLPSY	1.394333	1.278645	-3.608663
	2.672978	-0.935685	4061.283393			
HLA A*3001	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.650677
	2.710432	-0.940244	4473.802275			
HLA B*0802	1:136-144	9	QAYRKPITY	1.611085	1.319091	-3.871129
	2.930176	-0.940953	7432.398103			
HLA A*3101	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.651847
	2.710432	-0.941414	4485.871508			
HLA A*2501	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-3.844091
	2.896488	-0.947603	6983.788691			
HLA A*0202	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-1.969545
	1.020870	-0.948675	93.227724			
HLA B*4801	1:139-147	9	RKPITYDTL	1.549612	0.515162	-3.013858
	2.064774	-0.949084	1032.424434			
HLA B*1501	1:20-28	9	VATAAPKTY	1.520765	1.290711	-3.763494
	2.811476	-0.952019	5800.886350			
HLA B*3901	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-2.825326
	1.867525	-0.957802	668.846101			
HLA B*1501	1:121-129	9	GGTHPTTTY	1.498809	1.127203	-3.585399
	2.626012	-0.959386	3849.450104			
HLA A*6901	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-2.963152
	2.001898	-0.961254	918.653404			

HLA B*5301	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.675464
	2.710432	-0.965031	4736.568832			
HLA A*8001	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-3.790922
	2.823193	-0.967729	6179.057617			
HLA B*5701	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-3.606690
	2.636993	-0.969697	4042.869546			
HLA A*0101	1:42-50	9	QIQMSDPAY	1.582564	1.313924	-3.873281
	2.896488	-0.976793	7469.320451			
HLA A*8001	1:179-187	9	NAGLDPVNY	1.458021	1.175151	-3.621228
	2.633172	-0.988056	4180.501090			
HLA A*2602	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-2.739185
	1.751039	-0.988146	548.510167			
HLA B*1503	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-2.330309
	1.338234	-0.992075	213.948135			
HLA B*1801	1:130-138	9	KAFDWDQAY	1.345340	1.365092	-3.705960
	2.710432	-0.995528	5081.128383			
HLA A*0203	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-2.475558
	1.478828	-0.996730	298.922336			
HLA B*1517	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-3.697897
	2.697803	-1.000094	4987.658793			
HLA A*2902	1:109-117	9	TQAVVLKVY	1.536032	1.287161	-3.827151
	2.823193	-1.003958	6716.628123			
HLA B*3501	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-2.872443
	1.867525	-1.004918	745.491630			
HLA B*0702	1:177-185	9	APNAGLDPV	0.672482	0.029184	-1.708264
	0.701666	-1.006598	51.081490			
HLA A*2403	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-3.012754
	2.001898	-1.010856	1029.802676			
HLA B*1502	1:52-60	9	INISLPSYY	1.208811	1.305102	-3.534838
	2.513913	-1.020924	3426.397760			
HLA A*1101	1:192-200	9	VTNDGVIFF	1.493493	1.143500	-3.658449
	2.636993	-1.021456	4554.585744			

HLA A*0250	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-3.185413
	1.285203	-1.900210	1532.544063			
HLA A*0216	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-3.693982
	1.793265	-1.900718	4942.907618			
HLA A*3301	1:191-199	9	AVTNDGVIF	1.536436	1.161367	-4.598736
	2.697803	-1.900934	39695.042857			
HLA B*4403	1:179-187	9	NAGLDPVNY	1.458021	1.175151	-4.535624
	2.633172	-1.902452	34326.095708			
HLA A*0206	1:179-187	9	NAGLDPVNY	1.458021	1.175151	-4.535650
	2.633172	-1.902478	34328.138472			
HLA A*3101	1:193-201	9	TNDGVIFFF	1.447213	0.968246	-4.321828
	2.415459	-1.906369	20981.103314			
HLA B*5401	1:179-187	9	NAGLDPVNY	1.458021	1.175151	-4.541066
	2.633172	-1.907893	34758.883372			
HLA A*0203	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-3.247590
	1.339576	-1.908013	1768.437604			
HLA B*5701	1:92-100	9	ELNITSATY	1.311755	1.126521	-4.346317
	2.438276	-1.908041	22198.161385			
HLA B*1503	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-2.684738
	0.776623	-1.908115	483.880049			
HLA B*0803	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.149595
	2.240828	-1.908767	14112.196833			
HLA A*0203	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-4.197947
	2.288348	-1.909599	15774.188511			
HLA A*2301	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-3.501057
	1.590000	-1.911057	3169.982628			
HLA B*5401	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-1.695619
	-0.215742	-1.911360	49.615643			
HLA A*3201	1:83-91	9	SSTPREAPY	1.031192	1.298355	-4.240968
	2.329547	-1.911422	17416.803275			
HLA A*3001	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.063946
	2.152457	-1.911490	11586.346144			

HLA A*0301	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.271420
	2.001898	-2.269523	18681.860361			
HLA B*4801	1:48-56	9	PAYNINISL	1.435478	0.251657	-3.956739
	1.687135	-2.269604	9051.894807			
HLA B*1502	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.368531
	2.098630	-2.269902	23363.149347			
HLA B*5301	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.368607
	2.098630	-2.269977	23367.194242			
HLA B*1501	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.336444
	2.064774	-2.271670	21699.237264			
HLA A*0201	1:65-73	9	SPENYIAQT	1.098356	-0.294270	-3.076712
	0.804086	-2.272626	1193.195748			
HLA B*4501	1:182-190	9	LDPVNYQNF	1.429067	0.948572	-4.651052
	2.377639	-2.273413	44776.717979			
HLA A*3301	1:69-77	9	YIAQTRDKF	1.072862	1.215486	-4.561767
	2.288348	-2.273419	36455.841607			
HLA B*7301	1:83-91	9	SSTPREAPY	1.031192	1.298355	-4.603247
	2.329547	-2.273701	40109.503530			
HLA B*3501	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.053285
	1.779223	-2.274062	11305.363638			
HLA B*5301	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.278628
	2.001898	-2.276731	18994.520803			
HLA A*3002	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.010049
	1.732070	-2.277979	10234.091912			
HLA B*1509	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.119385
	1.839898	-2.279487	13163.911294			
HLA A*1101	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.432419
	2.152457	-2.279962	27065.657474			
HLA B*4601	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.378759
	2.098630	-2.280129	23919.863301			
HLA A*6801	1:182-190	9	LDPVNYQNF	1.429067	0.948572	-4.658394
	2.377639	-2.280755	45540.143875			

HLA B*4402	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.346296
	2.064774	-2.281522	22197.080605			
HLA B*5801	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-3.328670
	1.046875	-2.281796	2131.427028			
HLA A*0206	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-3.488403
	1.203934	-2.284469	3078.949430			
HLA B*5801	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.350074
	2.064774	-2.285300	22391.017583			
HLA A*6901	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.384412
	2.098630	-2.285782	24233.243952			
HLA B*1517	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-3.531953
	1.245899	-2.286054	3403.710465			
HLA B*1502	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.439824
	2.152457	-2.287368	27531.137667			
HLA A*3201	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.155675
	1.867525	-2.288151	14311.168411			
HLA B*5701	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.039986
	1.751039	-2.288948	10964.439889			
HLA A*6802	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-3.291920
	1.000164	-2.291756	1958.483081			
HLA A*3101	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.357033
	2.064774	-2.292259	22752.703405			
HLA B*3901	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.024513
	1.732070	-2.292442	10580.659604			
HLA A*0211	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.533764
	2.240828	-2.292936	34179.335644			
HLA A*0201	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.394044
	2.098630	-2.295415	24776.755935			
HLA B*3901	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.247784
	1.950385	-2.297399	17692.300308			
HLA A*0212	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.362331
	2.064774	-2.297557	23031.970428			

HLA A*8001	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.401441
	2.064774	-2.336666	25202.325803			
HLA B*1501	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.287380
	1.950385	-2.336995	19381.178134			
HLA A*2403	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-3.278476
	0.940065	-2.338411	1898.786219			
HLA A*0212	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-3.678603
	1.339576	-2.339026	4770.926927			
HLA A*0206	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.118838
	0.779687	-2.339151	1314.734208			
HLA A*2301	1:147-155	9	LWQADTDPL	0.954861	0.515252	-3.809563
	1.470113	-2.339450	6450.049667			
HLA B*4001	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.090796
	1.751039	-2.339758	12325.269199			
HLA B*0803	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.310978
	1.970572	-2.340407	20463.428603			
HLA A*0212	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.439039
	2.098630	-2.340410	27481.436489			
HLA A*3002	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.343220
	2.001898	-2.341323	22040.446244			
HLA B*4002	1:58-66	9	SYYPDQKSL	1.636422	0.572331	-4.550450
	2.208753	-2.341697	35518.094583			
HLA A*2602	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.494297
	2.152457	-2.341840	31210.229907			
HLA B*0803	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.441814
	2.098630	-2.343184	27657.579657			
HLA A*6802	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.442451
	2.098630	-2.343821	27698.157618			
HLA A*6801	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.584996
	2.240828	-2.344169	38458.867100			
HLA A*3001	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.363856
	1.017829	-2.346027	2311.300195			

HLA A*8001	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.347929
	2.001898		-2.346031	22280.695901		
HLA B*7301	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.185951
	1.839898		-2.346052	15344.422787		
HLA A*2602	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.525430
	1.179033		-2.346398	3352.975959		
HLA B*2705	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.445132
	2.098630		-2.346502	27869.658344		
HLA B*0702	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.445247
	2.098630		-2.346617	27877.047140		
HLA B*1517	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.445343
	2.098630		-2.346713	27883.231107		
HLA A*0202	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.587785
	2.240828		-2.346957	38706.626840		
HLA B*4001	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.445672
	2.098630		-2.347042	27904.357432		
HLA B*5401	1:58-66	9	SYYPDQKSL	1.636422	0.572331	-4.558433
	2.208753		-2.349680	36177.054942		
HLA A*0201	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.100796
	1.751039		-2.349757	12612.344412		
HLA A*0202	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.129904
	0.779687		-2.350217	1348.664846		
HLA B*3501	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-3.426409
	1.076055		-2.350355	2669.371656		
HLA B*0802	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.415406
	2.064774		-2.350632	26025.912207		
HLA A*2501	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.321276
	1.970572		-2.350704	20954.446483		
HLA B*0702	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.415624
	2.064774		-2.350850	26039.009651		
HLA B*4801	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.218655
	1.867525		-2.351131	16544.566314		

HLA A*0206	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-3.426940
	1.075733	-2.351207	2672.637319			
HLA B*1503	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-3.217657	
	0.864656	-2.353002	1650.658765			
HLA A*0250	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.594082
	2.240828	-2.353254	39271.902908			
HLA A*1101	1:61-69 9	PDQKSLENY	1.207586	0.891044	-4.453451	
	2.098630	-2.354821	28408.687605			
HLA A*2603	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.325848	
	1.970572	-2.355277	21176.212732			
HLA A*0203	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-3.842320
	1.486927	-2.355393	6955.359445			
HLA A*6801	1:70-78 9	IAQTRDKFL	1.739879	0.412578	-4.509402	
	2.152457	-2.356945	32314.824894			
HLA B*4002	1:46-54 9	SDPAYNINI	1.266370	0.129806	-3.754181	
	1.396176	-2.358005	5677.811869			
HLA A*0203	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.308749	
	1.950385	-2.358363	20358.638896			
HLA A*0216	1:5-13 9	IFMLVTAVV	1.049669	0.289907	-3.699142	
	1.339576	-2.359566	5001.980136			
HLA A*2403	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.153321
	1.793265	-2.360056	14233.801613			
HLA A*6901	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.310861	
	1.950385	-2.360476	20457.894107			
HLA A*0216	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.199178
	1.838116	-2.361063	15818.968336			
HLA A*0219	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.426080
	2.064774	-2.361305	26673.479415			
HLA B*4501	1:69-77 9	YIAQTRDKF	1.072862	1.215486	-4.649993	
	2.288348	-2.361645	44667.602224			
HLA A*2501	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.427724
	2.064774	-2.362950	26774.681313			

HLA A*0206	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.334729
	1.970572		-2.364158	21613.711214		
HLA A*0202	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.341602
	0.977336		-2.364266	2195.846785		
HLA B*4001	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.290385
	1.925846		-2.364539	19515.746334		
HLA B*7301	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.605923
	2.240828		-2.365095	40357.415842		
HLA A*2301	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.464019
	2.098630		-2.365389	29108.454986		
HLA B*4403	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.464350
	2.098630		-2.365721	29130.667222		
HLA B*5101	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.431343
	2.064774		-2.366568	26998.679115		
HLA A*2402	1:147-155	9	LWQADTDPL	0.954861	0.515252	-3.838800
	1.470113		-2.368687	6899.220896		
HLA A*0250	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-3.233967
	0.864656		-2.369312	1713.828762		
HLA B*1509	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.468328
	2.098630		-2.369698	29398.698892		
HLA B*4501	1:66-74	9	LENYIAQTR	0.964649	0.569583	-3.904487
	1.534232		-2.370255	8025.774476		
HLA B*0801	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-3.709771
	1.338234		-2.371537	5125.910663		
HLA B*4601	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.342654
	1.970572		-2.372082	22011.729003		
HLA B*0802	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.298099
	1.925846		-2.372252	19865.455327		
HLA B*1501	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-3.627027
	1.254764		-2.372263	4236.691779		
HLA A*2501	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.374182
	2.001898		-2.372284	23669.108289		

HLA B*3801	1:61-69 9	PDQKSLENY	1.207586	0.891044	-4.472668
	2.098630	-2.374038	29693.925113		
HLA A*0206	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.324554
	1.950385	-2.374168	21113.183628		
HLA A*6801	1:58-66 9	SYYPDQKSL	1.636422	0.572331	-4.583432
	2.208753	-2.374679	38320.549661		
HLA B*5101	1:61-69 9	PDQKSLENY	1.207586	0.891044	-4.473419
	2.098630	-2.374790	29745.374704		
HLA A*0211	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.347076
	1.970572	-2.376504	22236.984233		
HLA B*5101	1:218-226	9 VPRSAIDSM	0.858689	0.068844	-3.304504
	0.927533	-2.376971	2016.060988		
HLA B*5801	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.347936
	1.970572	-2.377364	22281.057512		
HLA B*5801	1:106-114	9 PRGTQAVVL	1.809522	0.163660	-4.352545
	1.973182	-2.379363	22518.812727		
HLA A*2403	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.330336
	1.950385	-2.379950	21396.158552		
HLA B*4801	1:106-114	9 PRGTQAVVL	1.809522	0.163660	-4.353777
	1.973182	-2.380594	22582.739216		
HLA B*0702	1:7-15 9	MLVTAVVLL	1.492026	0.433820	-4.306559
	1.925846	-2.380713	20256.248643		
HLA A*0206	1:209-217	9 EAAGPTQVL	1.572811	0.294714	-4.248393
	1.867525	-2.380868	17717.107450		
HLA B*1509	1:198-206	9 IFFFNPGEL	1.210946	0.568277	-4.160360
	1.779223	-2.381137	14466.383220		
HLA B*5701	1:142-150	9 ITYDTLWQA	1.233555	-0.212685	-3.402745
	1.020870	-2.381875	2527.813516		
HLA B*4001	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.332509
	1.950385	-2.382124	21503.496428		
HLA A*0203	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.353152
	1.970572	-2.382580	22550.265337		

HLA B*5401	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.535077
	2.152457	-2.382620	34282.854779			
HLA A*6802	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.162268
	1.779223	-2.383045	14530.071365			
HLA B*4501	1:124-132	9	HPTTTYKAF	1.324492	0.916336	-4.624007
	2.240828	-2.383179	42073.373512			
HLA B*4601	1:199-207	9	FFNPGELL	1.344812	0.501173	-4.229181
	1.845985	-2.383196	16950.444063			
HLA B*1502	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.354420
	1.970572	-2.383849	22616.238650			
HLA B*4403	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.063246
	1.678698	-2.384548	11567.682300			
HLA A*0101	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.357938
	1.973182	-2.384755	22800.142288			
HLA B*5701	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.355351
	1.970572	-2.384779	22664.741718			
HLA B*5401	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.063721
	1.678698	-2.385023	11580.330345			
HLA A*3201	1:199-207	9	FFNPGELL	1.344812	0.501173	-4.231352
	1.845985	-2.385367	17035.387011			
HLA A*0219	1:199-207	9	FFNPGELL	1.344812	0.501173	-4.231455
	1.845985	-2.385471	17039.442514			
HLA B*4002	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.388013
	2.001898	-2.386116	24435.054657			
HLA A*0101	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.311970
	1.925846	-2.386124	20510.199430			
HLA A*2501	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.254328
	1.867525	-2.386803	17960.880286			
HLA A*6801	1:199-207	9	FFNPGELL	1.344812	0.501173	-4.233701
	1.845985	-2.387717	17127.796303			
HLA B*1501	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.359110
	1.970572	-2.388538	22861.775216			

HLA A*3201	1:70-78 9	IAQTRDKFL	1.739879	0.412578	-4.541305
	2.152457	-2.388849	34778.068919		
HLA A*3101	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.360087
	1.970572	-2.389516	22913.283897		
HLA A*0216	1:61-69 9	PDQKSLENY	1.207586	0.891044	-4.488536
	2.098630	-2.389906	30798.958501		
HLA A*0203	1:48-56 9	PAYNINISL	1.435478	0.251657	-4.077052
	1.687135	-2.389917	11941.308719		
HLA B*4402	1:6-14 9	FMLVTAVVL	1.561991	0.439907	-4.392181
	2.001898	-2.390284	24670.690285		
HLA B*4402	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.341089
	1.950385	-2.390704	21932.563749		
HLA B*4403	1:58-66 9	SYYPDQKSL	1.636422	0.572331	-4.599984
	2.208753	-2.391231	39809.236808		
HLA B*4601	1:209-217 9	EAAGPTQVL	1.572811	0.294714	-4.258785
	1.867525	-2.391260	18146.153957		
HLA B*1501	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-3.256316
	0.864656	-2.391660	1804.328996		
HLA A*2902	1:139-147 9	RKPITYDTL	1.549612	0.515162	-4.456503
	2.064774	-2.391729	28609.031250		
HLA B*3901	1:48-56 9	PAYNINISL	1.435478	0.251657	-4.079101
	1.687135	-2.391966	11997.774008		
HLA B*3501	1:37-45 9	TGQACQIQM	1.304282	-0.067488	-3.629118
	1.236794	-2.392324	4257.139795		
HLA A*0301	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.363576
	1.970572	-2.393005	23098.103408		
HLA B*0803	1:7-15 9	MLVTAVVLL	1.492026	0.433820	-4.319289
	1.925846	-2.393442	20858.762010		
HLA A*3002	1:168-176 9	KQTGQVSI	1.475491	0.317774	-4.187398
	1.793265	-2.394133	15395.643247		
HLA B*4001	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.364892
	1.970572	-2.394320	23168.186093		

HLA A*0203	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.261851
	1.867525	-2.394326	18274.717375			
HLA B*5101	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.073523
	1.678698	-2.394825	11844.670937			
HLA A*0301	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.368066
	1.973182	-2.394884	23338.137120			
HLA A*2403	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.127256
	1.732070	-2.395185	13404.657499			
HLA A*0201	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.368256
	1.970572	-2.397685	23348.366156			
HLA B*5101	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.323616
	1.925846	-2.397770	21067.659006			
HLA B*4002	1:150-158	9	ADTDLPVVV	1.257750	0.027453	-3.684500
	1.285203	-2.399297	4836.152333			
HLA A*2403	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.371550
	1.970572	-2.400979	23526.128965			
HLA B*5801	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.351404
	1.950385	-2.401018	22459.683892			
HLA A*2602	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.372300
	1.970572	-2.401728	23566.764345			
HLA B*3901	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.501517
	2.098630	-2.402887	31733.424056			
HLA A*1101	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.468521
	2.064774	-2.403747	29411.743369			
HLA B*4002	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.469602
	2.064774	-2.404827	29485.027081			
HLA A*0101	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.376449
	1.970572	-2.405877	23792.996989			
HLA A*0219	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.376623
	1.970572	-2.406051	23802.523989			
HLA B*4001	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.379412
	1.973182	-2.406229	23955.864625			

HLA A*3001	1:199-207	9	FFNPGEELL	1.344812	0.501173	-4.252373
	1.845985	-2.406388	17880.219530			
HLA A*0216	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.274404
	1.867525	-2.406879	18810.657135			
HLA A*0212	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.378745
	1.970572	-2.408173	23919.086891			
HLA B*1517	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.359552
	1.950385	-2.409166	22885.038822			
HLA A*0206	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.570855
	1.161468	-2.409388	3722.677227			
HLA A*3101	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.360268
	1.950385	-2.409883	22922.830677			
HLA A*3001	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.277928
	1.867525	-2.410404	18963.923514			
HLA B*0702	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.572787
	1.161468	-2.411319	3739.268571			
HLA A*3101	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-3.746291
	1.334657	-2.411635	5575.597667			
HLA A*1101	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.414055
	2.001898	-2.412157	25945.079548			
HLA A*0202	1:219-227	9	PRSAIDSMI	1.524069	0.315829	-4.252549
	1.839898	-2.412651	17887.475752			
HLA A*6802	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-3.426790
	1.013420	-2.413370	2671.712124			
HLA A*0301	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-3.369039
	0.954978	-2.414061	2339.049000			
HLA A*6901	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-3.659990
	1.245899	-2.414092	4570.778171			
HLA B*4601	1:7-15	9	MLVTAVLIL	1.492026	0.433820	-4.340032
	1.925846	-2.414186	21879.234956			
HLA A*0202	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-3.537173
	1.122935	-2.414238	3444.872603			

HLA A*2402	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.385638
	1.970572		24301.774434			
HLA A*3002	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.480393
	2.064774		30226.837804			
HLA B*5701	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.283196
	1.867525		19195.336968			
HLA A*1101	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.341992
	1.925846		21978.173759			
HLA A*0301	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.366743
	1.950385		23267.162719			
HLA B*4501	1:58-66	9	SYYPDQKSL	1.636422	0.572331	-4.625199
	2.208753		42188.931346			
HLA A*2601	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.387327
	1.970572		24396.485376			
HLA B*1801	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.482648
	2.064774		30384.229043			
HLA B*4001	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.197190
	1.779223		15746.734042			
HLA A*0250	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.483456
	2.064774		30440.826798			
HLA A*3001	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.256884
	1.838116		18066.909032			
HLA A*2603	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.571567
	2.152457		37287.806018			
HLA A*0216	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.389860
	1.970572		24539.177952			
HLA A*0203	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-3.624085
	1.203934		4208.092860			
HLA A*3101	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.199667
	1.779223		15836.778758			
HLA A*3301	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.422957
	2.001898		26482.391721			

HLA B*4402	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.392022
	1.970572		24661.616287			
HLA B*1501	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.395165
	1.973182		24840.775344			
HLA A*0201	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.395614
	1.973182		24866.456306			
HLA A*0201	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.373820
	1.950385		23649.397224			
HLA A*8001	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.349454
	1.925846		22359.061317			
HLA A*8001	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.394451
	1.970572		24799.955624			
HLA A*2601	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.397094
	1.973182		24951.351501			
HLA A*6901	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.397235
	1.973182		24959.451858			
HLA B*0702	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.397259
	1.973182		24960.802173			
HLA A*3101	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.399568
	1.973182		25093.895324			
HLA B*4601	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.377053
	1.950385		23826.100387			
HLA A*0219	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.220685
	1.793265		16622.079015			
HLA B*5401	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-3.632746
	1.203934		4292.848051			
HLA A*6801	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.430929
	2.001898		26972.984813			
HLA B*4601	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.402242
	1.973182		25248.861263			
HLA A*0203	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.267400
	1.838116		18509.732939			

HLA B*7301	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.494591
	2.064774	-2.429816	31231.342530			
HLA A*0212	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-3.325048
	0.895143	-2.429905	2113.720516			
HLA A*0250	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-3.759289
	1.328019	-2.431269	5744.983408			
HLA B*5701	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.404572
	1.973182	-2.431390	25384.726296			
HLA A*0219	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.405094
	1.973182	-2.431912	25415.231550			
HLA B*5801	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.278001
	1.845985	-2.432016	18967.104155			
HLA A*3001	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.164721
	1.732070	-2.432650	14612.368292			
HLA B*4801	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.383117
	1.950385	-2.432732	24161.115868			
HLA A*2601	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.383129
	1.950385	-2.432743	24161.769422			
HLA A*0101	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.383234
	1.950385	-2.432849	24167.652200			
HLA B*3501	1:79-87	9	SAATSSTPR	0.650358	0.717768	-3.801218
	1.368126	-2.433092	6327.289243			
HLA A*2601	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.279159
	1.845985	-2.433175	19017.758370			
HLA A*2603	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.279820
	1.845985	-2.433835	19046.690750			
HLA B*4402	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.407260
	1.973182	-2.434078	25542.317319			
HLA A*2902	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.404728
	1.970572	-2.434156	25393.791599			
HLA A*8001	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.407676
	1.973182	-2.434494	25566.787088			

HLA A*2902	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.273711
	1.838116	-2.435595	18780.660824			
HLA B*3801	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.361810
	1.925846	-2.435963	23004.325742			
HLA A*2403	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.409316
	1.973182	-2.436134	25663.512408			
HLA A*2403	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.305004
	1.867525	-2.437479	20183.833744			
HLA B*1509	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.388248
	1.950385	-2.437863	24448.277327			
HLA B*5801	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.170312
	1.732070	-2.438242	14801.726799			
HLA B*4801	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.189428
	1.751039	-2.438389	15467.773146			
HLA A*0206	1:61-69	9	PDQKSLNENY	1.207586	0.891044	-4.537053
	2.098630	-2.438423	34439.187423			
HLA B*3501	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.411929
	1.973182	-2.438746	25818.364193			
HLA B*4402	1:87-95	9	REAPYELNI	1.162222	0.222672	-3.825587
	1.384894	-2.440693	6692.471749			
HLA A*2603	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.367039
	1.925846	-2.441193	23283.028095			
HLA A*3301	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.367587
	1.925846	-2.441741	23312.394953			
HLA A*3002	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.367859
	1.925846	-2.442013	23327.029171			
HLA B*3801	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.415526
	1.973182	-2.442343	26033.093860			
HLA B*0801	1:219-227	9	PRSAIDSMML	1.524069	0.315829	-4.283081
	1.839898	-2.443182	19190.249254			
HLA A*0202	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-3.308112
	0.864656	-2.443457	2032.883425			

HLA B*1503	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-3.371497
	0.927533	-2.443964	2352.322601			
HLA A*6802	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.283020
	1.838116	-2.444904	19187.550199			
HLA A*3301	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.224355
	1.779223	-2.445132	16763.134824			
HLA A*0212	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.418514
	1.973182	-2.445332	26212.855239			
HLA A*3001	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.285625
	1.839898	-2.445727	19303.013211			
HLA B*1509	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.133106
	1.687135	-2.445971	13586.448268			
HLA A*3301	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-3.785580
	1.339576	-2.446003	6103.507969			
HLA A*0206	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-3.402961
	0.956718	-2.446243	2529.071947			
HLA B*3501	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.284481
	1.838116	-2.446365	19252.224117			
HLA A*0202	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.397033
	1.950385	-2.446648	24947.842163			
HLA B*1502	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.608146
	1.161468	-2.446679	4056.452628			
HLA B*1517	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-3.785659
	1.338234	-2.447426	6104.630728			
HLA B*2705	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.293588
	1.845985	-2.447603	19660.181035			
HLA A*0203	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.421071
	1.973182	-2.447888	26367.597998			
HLA A*0211	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.547125
	2.098630	-2.448495	35247.241824			
HLA A*0203	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-3.405719
	0.956718	-2.449001	2545.185731			

HLA A*0250	1:48-569		PAYNINISL	1.435478	0.251657	-4.137645
	1.687135	-2.450510		13729.197246		
HLA A*3001	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.471740
	1.020870	-2.450870		2963.057015		
HLA A*0216	1:198-206	9	IFFFNPGEEL	1.210946	0.568277	-4.231051
	1.779223	-2.451828		17023.594672		
HLA A*3101	1:158-166	9	VFPIVQGEEL	1.307815	0.530301	-4.289983
	1.838116	-2.451868		19497.700840		
HLA A*6802	1:24-329		APKTYCEEL	1.537287	0.413098	-4.403576
	1.950385	-2.453191		25326.565719		
HLA A*0206	1:158-166	9	VFPIVQGEEL	1.307815	0.530301	-4.292119
	1.838116	-2.454003		19593.818664		
HLA B*5701	1:24-329		APKTYCEEL	1.537287	0.413098	-4.404523
	1.950385	-2.454138		25381.842561		
HLA B*7301	1:70-789		IAQTRDKFL	1.739879	0.412578	-4.607032
	2.152457	-2.454576		40460.598880		
HLA B*1801	1:199-207	9	FFFNPGEEL	1.344812	0.501173	-4.301146
	1.845985	-2.455161		20005.333966		
HLA A*3101	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.249845
	1.793265	-2.456580		17776.440388		
HLA A*3301	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-3.791355
	1.334657	-2.456698		6185.211434		
HLA A*2402	1:61-699		PDQKSLENY	1.207586	0.891044	-4.555348
	2.098630	-2.456718		35920.993152		
HLA B*4403	1:70-789		IAQTRDKFL	1.739879	0.412578	-4.609236
	2.152457	-2.456779		40666.437037		
HLA A*2603	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.521629
	2.064774	-2.456854		33237.513512		
HLA A*0216	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.430086
	1.973182	-2.456903		26920.650063		
HLA A*0216	1:48-569		PAYNINISL	1.435478	0.251657	-4.144590
	1.687135	-2.457455		13950.514415		

HLA B*2705	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.428229
	1.970572	-2.457658	26805.841764			
HLA A*0212	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.326767
	1.867525	-2.459242	21221.053477			
HLA A*0211	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-3.744872
	1.285203	-2.459669	5557.408728			
HLA B*4002	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.558365
	2.098630	-2.459735	36171.379686			
HLA A*0219	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.410211
	1.950385	-2.459826	25716.463764			
HLA B*0702	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.211348
	1.751039	-2.460310	16268.536613			
HLA B*0803	1:44-52	9	QMSPAYNI	1.440627	0.291443	-4.192407
	1.732070	-2.460337	15574.242799			
HLA B*1501	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.239852
	1.779223	-2.460629	17372.104818			
HLA B*1801	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.411160
	1.950385	-2.460775	25772.731010			
HLA B*0802	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.434547
	1.973182	-2.461365	27198.641628			
HLA B*4402	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.387612
	1.925846	-2.461765	24412.460460			
HLA A*8001	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.413637
	1.950385	-2.463251	25920.107492			
HLA A*0212	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.214939
	1.751039	-2.463900	16403.574754			
HLA B*5301	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.528750
	2.064774	-2.463976	33787.014324			
HLA A*6802	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.437249
	1.973182	-2.464067	27368.381971			
HLA A*6901	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-3.189933
	0.725355	-2.464579	1548.579049			

HLA B*5401	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.563283
	2.098630	-2.464653	36583.272034			
HLA A*0202	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-3.951937
	1.486927	-2.465011	8952.352020			
HLA A*0202	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.319052
	0.852998	-2.466054	2084.738933			
HLA A*0250	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.245606
	1.779223	-2.466383	17603.796110			
HLA B*5101	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.153763
	1.687135	-2.466627	14248.285596			
HLA B*5401	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.392834
	1.925846	-2.466988	24707.821665			
HLA A*3201	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.320405
	0.852998	-2.467407	2091.245312			
HLA A*0203	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-3.354139
	0.886699	-2.467440	2260.158446			
HLA B*4002	1:70-78	9	IAQTRDKFL	1.739879	0.412578	-4.620812
	2.152457	-2.468355	41764.956774			
HLA A*6901	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.248329
	1.779223	-2.469106	17714.519754			
HLA B*2705	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.202045
	1.732070	-2.469974	15923.719854			
HLA B*3801	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.420615
	1.950385	-2.470229	26339.939233			
HLA A*2902	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.443522
	1.973182	-2.470340	27766.570815			
HLA A*3002	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-3.410461
	0.940065	-2.470396	2573.124148			
HLA A*2902	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.421002
	1.950385	-2.470617	26363.461595			
HLA B*1509	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.264045
	1.793265	-2.470780	18367.290214			

HLA B*1517	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.264355
	1.793265	-2.471091	18380.411079			
HLA A*0201	1:198-206	9	IFFFNPGEI	1.210946	0.568277	-4.250618
	1.779223	-2.471395	17808.108022			
HLA A*2602	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.474122
	2.001898	-2.472224	29793.528474			
HLA A*6801	1:126-134	9	TTYKAFDW	1.082766	0.285902	-3.842667
	1.368668	-2.473999	6960.930578			
HLA A*0203	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.654309
	1.179033	-2.475276	4511.376676			
HLA A*0212	1:198-206	9	IFFFNPGEI	1.210946	0.568277	-4.256569
	1.779223	-2.477346	18053.816622			
HLA A*0250	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-2.518014
	0.040514	-2.477499	329.620005			
HLA A*0202	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.576313
	2.098630	-2.477683	37697.520870			
HLA B*5101	1:199-207	9	FFFNPGEII	1.344812	0.501173	-4.324457
	1.845985	-2.478473	21108.501128			
HLA A*1101	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.449462
	1.970572	-2.478890	28148.920570			
HLA A*0212	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.430137
	1.950385	-2.479752	26923.854284			
HLA A*2402	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.211875
	1.732070	-2.479804	16288.263022			
HLA B*5101	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.453634
	1.973182	-2.480452	28420.677786			
HLA B*1502	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.274895
	1.793265	-2.481630	18831.937749			
HLA B*4002	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.016769
	1.534232	-2.482537	10393.667997			
HLA B*5401	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.547515
	2.064774	-2.482741	35278.909530			

HLA A*2501	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.408696
	1.925846	-2.482849	25626.885665			
HLA A*0203	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-3.554855
	1.071973	-2.482883	3588.024416			
HLA B*5801	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.262588
	1.779223	-2.483365	18305.787114			
HLA B*0801	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.170773
	1.687135	-2.483638	14817.429960			
HLA B*4402	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.354418
	1.867525	-2.486893	22616.116299			
HLA B*0803	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.460086
	1.973182	-2.486904	28846.034377			
HLA B*2705	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.438412
	1.950385	-2.488027	27441.769847			
HLA B*4402	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.335014
	1.845985	-2.489029	21627.864107			
HLA B*1509	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.415815
	1.925846	-2.489968	26050.422472			
HLA A*0216	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-3.170066
	0.680076	-2.489990	1479.333643			
HLA A*3002	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.144040
	1.653995	-2.490046	13932.865436			
HLA B*4501	1:91-99	9	YELNITSAT	0.787532	-0.429583	-2.849770
	0.357949	-2.491821	707.571353			
HLA A*2402	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.465387
	1.973182	-2.492204	29200.249005			
HLA A*3201	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.591138
	2.098630	-2.492508	39006.594959			
HLA B*4002	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.338524
	1.845985	-2.492539	21803.376926			
HLA A*0206	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-3.539692
	1.046875	-2.492817	3464.908844			

HLA A*0203	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.510746
	1.017829	-2.492917	3241.500988			
HLA A*0216	1:24-329		APKTYCEEL	1.537287	0.413098	-4.443724
	1.950385	-2.493339	27779.492230			
HLA B*4001	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.331891
	1.838116	-2.493776	21472.922990			
HLA A*0301	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.362646
	1.867525	-2.495121	23048.672936			
HLA B*4001	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.335169
	1.839898	-2.495271	21635.587773			
HLA B*1503	1:12-209		VVLLCCSGV	1.181551	0.297277	-3.974746
	1.478828	-2.495918	9435.087919			
HLA A*0301	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.342050
	1.845985	-2.496066	21981.146447			
HLA A*0202	1:85-939		TPREAPYEL	1.651184	0.319388	-4.466653
	1.970572	-2.496081	29285.519155			
HLA A*2402	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.363764
	1.867525	-2.496240	23108.102226			
HLA A*0250	1:61-699		PDQKSLENY	1.207586	0.891044	-4.595875
	2.098630	-2.497245	39434.342349			
HLA A*0201	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.364817
	1.867525	-2.497292	23164.175646			
HLA A*6801	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-3.590469
	1.092768	-2.497701	3894.654020			
HLA B*4601	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.335885
	1.838116	-2.497770	21671.316311			
HLA B*1502	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.562554
	2.064774	-2.497780	36521.970903			
HLA A*0201	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.336336
	1.838116	-2.498221	21693.837974			
HLA A*2301	1:24-329		APKTYCEEL	1.537287	0.413098	-4.449072
	1.950385	-2.498686	28123.653016			

HLA B*4501	1:70-78 9	IAQTRDKFL	1.739879	0.412578	-4.652605
	2.152457	-2.500149	44937.123318		
HLA A*0206	1:87-95 9	REAPYELNI	1.162222	0.222672	-3.885451
	1.384894	-2.500558	7681.595326		
HLA B*0802	1:209-217 9	EAAGPTQVL	1.572811	0.294714	-4.368736
	1.867525	-2.501211	23374.148043		
HLA B*1509	1:158-166 9	VFPIVQGEL	1.307815	0.530301	-4.339518
	1.838116	-2.501402	21853.328538		
HLA A*6801	1:132-140 9	FDWDQAYRK	1.061895	0.169613	-3.733205
	1.231508	-2.501697	5410.093816		
HLA A*1101	1:106-114 9	PRGTQAVVL	1.809522	0.163660	-4.475120
	1.973182	-2.501938	29862.108650		
HLA B*5801	1:158-166 9	VFPIVQGEL	1.307815	0.530301	-4.340060
	1.838116	-2.501945	21880.655373		
HLA A*3101	1:174-182 9	VSIAPNAGL	1.281479	0.469560	-4.253308
	1.751039	-2.502269	17918.759548		
HLA A*6802	1:168-176 9	KQTGQQVSI	1.475491	0.317774	-4.296390
	1.793265	-2.503126	19787.478144		
HLA B*1517	1:106-114 9	PRGTQAVVL	1.809522	0.163660	-4.476535
	1.973182	-2.503352	29959.520708		
HLA A*2501	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.454710
	1.950385	-2.504325	28491.183842		
HLA A*2301	1:44-52 9	QMSDPAYNI	1.440627	0.291443	-4.237442
	1.732070	-2.505372	17275.947257		
HLA A*0101	1:209-217 9	EAAGPTQVL	1.572811	0.294714	-4.373014
	1.867525	-2.505490	23605.554282		
HLA A*0250	1:158-166 9	VFPIVQGEL	1.307815	0.530301	-4.343730
	1.838116	-2.505615	22066.335730		
HLA B*3501	1:219-227 9	PRSAIDSML	1.524069	0.315829	-4.346486
	1.839898	-2.506588	22206.809520		
HLA B*4402	1:140-148 9	KPITYDTLW	1.293618	0.385080	-4.185335
	1.678698	-2.506637	15322.689147		

HLA A*3101	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.374255
	1.867525	-2.506730	23673.078087			
HLA A*0201	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.194865
	1.687135	-2.507729	15662.623278			
HLA B*0801	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.353934
	1.845985	-2.507949	22590.926098			
HLA A*1101	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.458777
	1.950385	-2.508392	28759.243213			
HLA B*7301	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.511582
	2.001898	-2.509685	32477.465419			
HLA B*5801	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.350410
	1.839898	-2.510512	22408.346293			
HLA A*0206	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.290442
	1.779223	-2.511219	19518.280371			
HLA A*6801	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.290639
	1.779223	-2.511416	19527.152093			
HLA A*0211	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-2.899335
	0.387379	-2.511956	793.112833			
HLA A*2603	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.514211
	2.001898	-2.512314	32674.669447			
HLA B*4601	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.200062
	1.687135	-2.512926	15851.178738			
HLA B*4402	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.353065
	1.839898	-2.513167	22545.751994			
HLA A*3101	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-3.853630
	1.339576	-2.514054	7138.878647			
HLA A*0101	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.355254
	1.839898	-2.515356	22659.715113			
HLA B*3901	1:153-161	9	DPLPVVFPPI	0.780193	-0.026100	-3.269496
	0.754093	-2.515403	1859.928886			
HLA B*5301	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.309064
	1.793265	-2.515799	20373.402736			

HLA B*1801	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.383904
	1.867525	-2.516380	24204.943072			
HLA A*2402	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.466961
	1.950385	-2.516575	29306.281026			
HLA A*3002	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-3.995713
	1.478828	-2.516884	9901.768206			
HLA A*2602	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.581691
	2.064774	-2.516917	38167.240499			
HLA A*0211	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-3.563802
	1.046875	-2.516927	3662.707423			
HLA A*0250	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.487566
	1.970572	-2.516994	30730.221692			
HLA B*3801	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.357876
	1.839898	-2.517978	22796.935512			
HLA A*0203	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.359028
	1.839898	-2.519130	22857.446837			
HLA A*0101	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.365174
	1.845985	-2.519189	23183.231455			
HLA A*0206	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.493038
	1.973182	-2.519855	31119.860670			
HLA A*0219	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.207007
	1.687135	-2.519872	16106.702636			
HLA A*0203	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-3.523988
	1.002409	-2.521579	3341.856950			
HLA A*2601	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.359975
	1.838116	-2.521859	22907.334670			
HLA B*0801	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.301287
	1.779223	-2.522064	20011.828619			
HLA A*3101	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.254553
	1.732070	-2.522483	17970.210680			
HLA A*3301	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.493771
	1.970572	-2.523199	31172.431783			

HLA B*4801	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.361382
	1.838116	-2.523266	22981.686833			
HLA B*7301	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.621937
	2.098630	-2.523308	41873.324195			
HLA A*3002	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.703268
	1.179033	-2.524235	5049.724193			
HLA B*1801	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.499066
	1.973182	-2.525884	31554.871970			
HLA A*6901	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.365073
	1.838116	-2.526957	23177.839077			
HLA B*4402	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.320348
	1.793265	-2.527084	20909.716605			
HLA A*0301	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.365254
	1.838116	-2.527138	23187.496083			
HLA B*1501	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.214412
	1.687135	-2.527277	16383.708693			
HLA B*1801	1:198-206	9	IFFFNPGEEL	1.210946	0.568277	-4.306519
	1.779223	-2.527296	20254.385799			
HLA A*0211	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.500587
	1.973182	-2.527404	31665.513799			
HLA A*0301	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.367328
	1.839898	-2.527430	23298.526158			
HLA B*3501	1:147-155	9	LWQADTDPL	0.954861	0.515252	-3.997752
	1.470113	-2.527639	9948.374108			
HLA B*0803	1:199-207	9	FFFNPGEEL	1.344812	0.501173	-4.374400
	1.845985	-2.528416	23681.019679			
HLA A*3001	1:79-87	9	SAATSSTPR	0.650358	0.717768	-3.896875
	1.368126	-2.528748	7886.324089			
HLA A*0211	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.479143
	1.950385	-2.528757	30139.968188			
HLA B*4501	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.627654
	2.098630	-2.529024	42428.114928			

HLA B*1501	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.016863
	1.486927	-2.529936	10395.917384			
HLA A*2501	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.504374
	1.973182	-2.531191	31942.868163			
HLA B*5401	1:199-207	9	FFFNPCELL	1.344812	0.501173	-4.378740
	1.845985	-2.532755	23918.828093			
HLA A*6901	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-3.788281
	1.254764	-2.533517	6141.598530			
HLA A*3201	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.507416
	1.973182	-2.534234	32167.439448			
HLA A*0219	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.374248
	1.839898	-2.534349	23672.693884			
HLA A*3201	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.505332
	1.970572	-2.534761	32013.451441			
HLA B*5301	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.508478
	1.973182	-2.535296	32246.193767			
HLA A*2301	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.222480
	1.687135	-2.535345	16690.922822			
HLA B*5701	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.328717
	1.793265	-2.535452	21316.554670			
HLA A*0211	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.022920
	1.486927	-2.535993	10541.921838			
HLA B*0801	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.329398
	1.793265	-2.536134	21350.023775			
HLA A*3301	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.634791
	2.098630	-2.536162	43131.193120			
HLA A*2902	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.190245
	1.653995	-2.536251	15496.920845			
HLA B*3801	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.404173
	1.867525	-2.536649	25361.391174			
HLA A*2301	1:1-9	9	VRKIFMLV	0.881917	0.241018	-3.659713
	1.122935	-2.536778	4567.861269			

HLA B*1501	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.375035
	1.838116	-2.536919	23715.635111			
HLA A*0101	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.375256
	1.838116	-2.537140	23727.698280			
HLA B*1509	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.289596
	1.751039	-2.538557	19480.304340			
HLA B*4801	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.317980
	1.779223	-2.538757	20796.002735			
HLA A*1101	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.271390
	1.732070	-2.539319	18680.546539			
HLA A*0301	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.333045
	1.793265	-2.539780	21530.036382			
HLA A*8001	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.386127
	1.845985	-2.540142	24329.135565			
HLA B*1517	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.386138
	1.845985	-2.540154	24329.793664			
HLA B*0702	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.380053
	1.839898	-2.540155	23991.271175			
HLA A*0206	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-3.405367
	0.864656	-2.540711	2543.121193			
HLA A*8001	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.379464
	1.838116	-2.541348	23958.715964			
HLA B*0702	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.334642
	1.793265	-2.541378	21609.385319			
HLA B*0803	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.408947
	1.867525	-2.541423	25641.724291			
HLA A*2301	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.514759
	1.973182	-2.541576	32715.881973			
HLA A*2902	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.410016
	1.867525	-2.542492	25704.919129			
HLA B*1503	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.012662
	1.470113	-2.542549	10295.843685			

HLA A*8001	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.410392
	1.867525	-2.542868	25727.178483			
HLA B*4403	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.607942
	2.064774	-2.543167	40545.397023			
HLA A*0219	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.323160
	1.779223	-2.543938	21045.559707			
HLA A*3002	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.514554
	1.970572	-2.543983	32700.487527			
HLA A*0250	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.494457
	1.950385	-2.544071	31221.713403			
HLA B*3501	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.276237
	1.732070	-2.544166	18890.200426			
HLA B*4001	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.231810
	1.687135	-2.544675	17053.367607			
HLA B*4002	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.515720
	1.970572	-2.545148	32788.350738			
HLA A*6801	1:61-69	9	PDQKSLENY	1.207586	0.891044	-4.643924
	2.098630	-2.545294	44047.769379			
HLA A*0250	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.518624
	1.973182	-2.545441	33008.328713			
HLA B*0702	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.232654
	1.687135	-2.545518	17086.519991			
HLA B*0801	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.383749
	1.838116	-2.545633	24196.302174			
HLA B*1501	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.385871
	1.839898	-2.545972	24314.793440			
HLA A*0202	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-3.549282
	1.002409	-2.546874	3542.276119			
HLA A*2601	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.387351
	1.839898	-2.547453	24397.805234			
HLA A*2602	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.498051
	1.950385	-2.547666	31481.212066			

HLA A*8001	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.327204
	1.779223	-2.547981	21242.417683			
HLA A*3101	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.388723
	1.839898	-2.548825	24475.008950			
HLA A*6802	1:94-102	9	NITSATYQS	1.243610	-0.899139	-2.893663
	0.344471	-2.549192	782.822537			
HLA B*5101	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.281377
	1.732070	-2.549307	19115.129255			
HLA B*0702	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.395431
	1.845985	-2.549446	24855.965587			
HLA B*4402	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.388154
	1.838116	-2.550039	24442.987401			
HLA A*0201	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.389996
	1.839898	-2.550098	24546.878906			
HLA A*2601	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.303148
	1.751039	-2.552109	20097.755896			
HLA A*6901	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.393415
	1.839898	-2.553517	24740.859377			
HLA B*0802	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.399599
	1.845985	-2.553614	25095.660203			
HLA A*0206	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.407087
	0.852998	-2.554089	2553.212018			
HLA A*2902	1:126-134	9	TTYKAFDW	1.082766	0.285902	-3.923386
	1.368668	-2.554718	8382.744111			
HLA A*6802	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.394994
	1.839898	-2.555095	24830.967115			
HLA B*0802	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.396020
	1.839898	-2.556122	24889.739985			
HLA A*0206	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.300425
	0.742712	-2.557713	1997.215647			
HLA B*5401	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.508255
	1.950385	-2.557870	32229.625434			

HLA A*2902	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.398358
	1.839898	-2.558460	25024.078703			
HLA B*4601	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.398499
	1.839898	-2.558601	25032.202671			
HLA A*0216	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-3.362761
	0.804086	-2.558676	2305.480727			
HLA B*3901	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.028986
	1.470113	-2.558873	10690.208166			
HLA A*2603	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.246158
	1.687135	-2.559023	17626.190470			
HLA A*3301	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.093386
	1.534232	-2.559154	12398.968197			
HLA A*2501	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.352926
	1.793265	-2.559661	22538.556912			
HLA B*0803	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.400003
	1.839898	-2.560105	25119.022606			
HLA A*0301	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.341080
	1.779223	-2.561857	21932.089143			
HLA B*0702	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.400578
	1.838116	-2.562463	25152.338006			
HLA B*5301	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.408924
	1.845985	-2.562939	25640.337140			
HLA A*6802	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-3.818087
	1.254764	-2.563323	6577.895813			
HLA B*5701	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.409711
	1.845985	-2.563726	25686.847585			
HLA B*1517	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.343343
	1.779223	-2.564120	22046.647407			
HLA B*5701	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.404049
	1.839898	-2.564150	25354.120494			
HLA A*6901	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.582222
	1.017829	-2.564393	3821.397288			

HLA B*2705	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.432513
	1.867525	-2.564988	27071.514996			
HLA A*2403	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.405115
	1.839898	-2.565217	25416.469023			
HLA A*0301	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.219285
	1.653995	-2.565290	16568.570856			
HLA A*2602	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.538709
	1.973182	-2.565527	34570.788316			
HLA B*0803	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.359018
	1.793265	-2.565754	22856.952218			
HLA A*0216	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.319220
	1.751039	-2.568182	20855.489803			
HLA B*4501	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.633018
	2.064774	-2.568243	42955.384502			
HLA A*8001	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.408522
	1.839898	-2.568624	25616.628461			
HLA A*3001	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-3.908382
	1.339576	-2.568806	8098.086251			
HLA A*0301	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.322014
	1.751039	-2.570975	20990.072160			
HLA A*0206	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-3.831192
	1.260066	-2.571126	6779.418088			
HLA A*6901	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.364476
	1.793265	-2.571212	23146.012006			
HLA A*0216	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.411113
	1.839898	-2.571215	25769.942609			
HLA A*3301	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.636629
	2.064774	-2.571855	43314.047582			
HLA A*3002	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.418291
	1.845985	-2.572306	26199.386879			
HLA A*0212	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.410862
	1.838116	-2.572746	25755.029785			

HLA B*5701	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.411990
	1.838116	-2.573874	25821.995985			
HLA A*0250	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.325602
	1.751039	-2.574563	21164.187246			
HLA B*1801	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.253266
	1.678698	-2.574567	17917.014740			
HLA A*3001	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-3.820620
	1.245899	-2.574721	6616.369260			
HLA B*5101	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.412953
	1.838116	-2.574838	25879.334147			
HLA B*0702	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.354155
	1.779223	-2.574932	22602.417174			
HLA A*0202	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.548471
	1.973182	-2.575289	35356.673090			
HLA B*1517	1:79-879		SAATSSTPR	0.650358	0.717768	-3.943587
	1.368126	-2.575461	8781.871566			
HLA B*3901	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.063275
	1.486927	-2.576348	11568.433283			
HLA B*0802	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.358201
	1.779223	-2.578978	22813.961254			
HLA A*0250	1:8-16	9	LVTAVLLC	0.979168	0.067707	-3.626228
	1.046875	-2.579353	4228.906130			
HLA A*3002	1:24-329		APKTYCEEL	1.537287	0.413098	-4.530784
	1.950385	-2.580399	33945.676643			
HLA A*1101	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.448755
	1.867525	-2.581230	28103.120825			
HLA A*0212	1:48-569		PAYNINISL	1.435478	0.251657	-4.268509
	1.687135	-2.581374	18557.057339			
HLA A*0301	1:44-529		QMSDPAYNI	1.440627	0.291443	-4.313513
	1.732070	-2.581443	20583.228480			
HLA B*1517	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.061860
	1.478828	-2.583032	11530.819033			

HLA B*4601	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.376834
	1.793265	-2.583570	23814.116022			
HLA A*0219	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.334962
	1.751039	-2.583923	21625.290164			
HLA A*6901	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.071056
	1.486927	-2.584129	11777.579395			
HLA A*0212	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.424945
	1.839898	-2.585047	26603.873221			
HLA B*4002	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-3.038669
	0.452621	-2.586048	1093.122506			
HLA B*3501	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.379398
	1.793265	-2.586133	23955.087047			
HLA B*4601	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.337732
	1.751039	-2.586693	21763.662691			
HLA A*0206	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.426618
	1.839898	-2.586720	26706.544723			
HLA B*0801	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.318924
	1.732070	-2.586854	20841.278585			
HLA A*3002	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.561114
	1.973182	-2.587931	36401.055083			
HLA A*0250	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.606178
	1.017829	-2.588349	4038.104374			
HLA A*2601	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.075666
	1.486927	-2.588739	11903.254800			
HLA B*5101	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.368501
	1.779223	-2.589278	23361.506308			
HLA B*5401	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.562493
	1.973182	-2.589311	36516.834190			
HLA A*8001	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.382647
	1.793265	-2.589382	24134.988214			
HLA A*0301	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-3.928179
	1.338234	-2.589945	8475.769913			

HLA A*3002	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.430118
	1.839898	-2.590220	26922.689068			
HLA B*0802	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.428382
	1.838116	-2.590267	26815.269502			
HLA A*0101	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.342111
	1.751039	-2.591073	21984.238470			
HLA A*1101	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.437677
	1.845985	-2.591692	27395.342146			
HLA B*1502	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.542156
	1.950385	-2.591771	34846.244324			
HLA B*4501	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.593748
	2.001898	-2.591851	39241.745650			
HLA B*4403	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.517792
	1.925846	-2.591945	32945.174930			
HLA A*2902	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.343953
	1.751039	-2.592915	22077.679405			
HLA A*0203	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.193702
	0.600517	-2.593185	1562.075256			
HLA B*7301	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.387243
	1.793265	-2.593978	24391.734476			
HLA B*1502	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.432268
	1.838116	-2.594153	27056.288075			
HLA A*0101	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.388563
	1.793265	-2.595298	24466.006924			
HLA B*1503	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.434479
	1.838116	-2.596363	27194.374856			
HLA B*4002	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-3.935317
	1.338234	-2.597083	8616.222276			
HLA A*2603	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.570357
	1.973182	-2.597174	37184.063312			
HLA B*4402	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.376421
	1.779223	-2.597198	23791.452429			

HLA B*4501	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.547861
	1.950385		-2.597475	35306.976372		
HLA B*4403	1:6-14	9	FMLVTAVVL	1.561991	0.439907	-4.599577
	2.001898		-2.597680	39771.996343		
HLA A*2501	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.436143
	1.838116		-2.598027	27298.734523		
HLA A*0203	1:1-9	9	VRKIFMLV	0.881917	0.241018	-3.721354
	1.122935		-2.598419	5264.461984		
HLA B*4402	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.349700
	1.751039		-2.598661	22371.765730		
HLA A*2601	1:198-206	9	IFFFNPQEL	1.210946	0.568277	-4.378005
	1.779223		-2.598782	23878.360725		
HLA A*0219	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.437038
	1.838116		-2.598922	27355.059823		
HLA B*1501	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-3.598072
	0.999064		-2.599008	3963.435700		
HLA B*7301	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.569769
	1.970572		-2.599198	37133.806890		
HLA B*4601	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.331675
	1.732070		-2.599605	21462.238365		
HLA B*0802	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.351049
	1.751039		-2.600010	22441.344220		
HLA B*0802	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.394075
	1.793265		-2.600810	24778.498510		
HLA A*0101	1:198-206	9	IFFFNPQEL	1.210946	0.568277	-4.380356
	1.779223		-2.601133	24008.019944		
HLA A*2601	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.394543
	1.793265		-2.601278	24805.188612		
HLA A*2301	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.395064
	1.793265		-2.601799	24834.997425		
HLA B*4002	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.552451
	1.950385		-2.602066	35682.183363		

HLA A*3001	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.256435
	1.653995	-2.602441	18048.250339			
HLA A*0203	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-3.930811
	1.328019	-2.602791	8527.281143			
HLA B*3901	1:1-9	9	VRKIFMLV	0.881917	0.241018	-3.725832
	1.122935	-2.602897	5319.025989			
HLA B*5101	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.442991
	1.839898	-2.603093	27732.643180			
HLA B*5301	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.443468
	1.839898	-2.603570	27763.116106			
HLA A*3101	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.291687
	1.687135	-2.604552	19574.324297			
HLA A*2501	1:44-52	9	QMSPAYNI	1.440627	0.291443	-4.337422
	1.732070	-2.605352	21748.126691			
HLA A*0212	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.092869
	1.486927	-2.605942	12384.220026			
HLA B*3801	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.452056
	1.845985	-2.606071	28317.543544			
HLA B*5301	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-3.533893
	0.927533	-2.606360	3418.954212			
HLA A*3002	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.196650
	1.590000	-2.606651	15727.152967			
HLA B*1503	1:78-86	9	LSAATSSTP	0.733359	0.025119	-3.366262
	0.758478	-2.607784	2324.139697			
HLA A*6801	1:139-147	9	RKPITYDTL	1.549612	0.515162	-4.672625
	2.064774	-2.607851	47057.107554			
HLA B*3901	1:198-206	9	IFFNPGEL	1.210946	0.568277	-4.387348
	1.779223	-2.608125	24397.673245			
HLA A*2501	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.454222
	1.845985	-2.608237	28459.141971			
HLA B*5801	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.295491
	1.687135	-2.608355	19746.521182			

HLA B*2705	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.446797
	1.838116	-2.608682	27976.760794			
HLA B*0803	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.446856
	1.838116	-2.608741	27980.544829			
HLA A*2902	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-3.840318
	1.231508	-2.608810	6923.374394			
HLA B*1517	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.448900
	1.839898	-2.609002	28112.548562			
HLA A*8001	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.360200
	1.751039	-2.609161	22919.234669			
HLA A*3001	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.287944
	1.678698	-2.609246	19406.358483			
HLA B*4501	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.402954
	1.793265	-2.609689	25290.283046			
HLA B*1801	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.449932
	1.838116	-2.611816	28179.393560			
HLA A*2403	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.363341
	1.751039	-2.612303	23085.610969			
HLA B*5401	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-3.336311
	0.723137	-2.613174	2169.256931			
HLA B*4402	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.345725
	1.732070	-2.613655	22167.919427			
HLA A*2902	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.292382
	1.678698	-2.613684	19605.694305			
HLA A*2902	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.406957
	1.793265	-2.613693	25524.498175			
HLA A*1101	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.365096
	1.751039	-2.614058	23179.093007			
HLA A*3201	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.564725
	1.950385	-2.614340	36704.991707			
HLA B*5301	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.347682
	1.732070	-2.615612	22268.043205			

HLA B*3501	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-3.691111
	1.075247		4910.338400			
HLA A*1101	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.409607
	1.793265		25680.733941			
HLA A*0219	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.469508
	0.852998		2947.867761			
HLA A*2602	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.103502
	1.486927		12691.192411			
HLA B*3501	1:212-220	9	GPTQQLVPR	0.849469	0.485188	-3.951331
	1.334657		8939.865479			
HLA A*0206	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.318422
	0.701666		2081.718564			
HLA B*5701	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.395992
	1.779223		24888.124229			
HLA B*3801	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.410098
	1.793265		25709.786717			
HLA A*2402	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.296158
	1.678698		19776.883224			
HLA B*2705	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.368834
	1.751039		23379.459612			
HLA B*4002	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.543688
	1.925846		34969.372685			
HLA B*3801	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.351049
	1.732070		22441.344220			
HLA A*1101	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.459654
	1.839898		28817.334755			
HLA B*1517	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.458063
	1.838116		28711.984452			
HLA B*1503	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-3.428984
	0.809025		2685.246012			
HLA B*1502	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.593762
	1.973182		39243.019431			

HLA B*5401	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.488456
	1.867525	-2.620932	30793.293978			
HLA A*2301	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.461846
	1.839898	-2.621948	28963.155837			
HLA B*3801	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.460375
	1.838116	-2.622260	28865.235388			
HLA B*4501	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.490101
	1.867525	-2.622576	30910.126872			
HLA B*4001	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.356178
	1.732070	-2.624107	22707.942875			
HLA A*0202	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-3.519331
	0.895143	-2.624188	3306.215644			
HLA A*3001	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-2.866217
	0.241980	-2.624237	734.880353			
HLA A*0216	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-3.909562
	1.285203	-2.624359	8120.108635			
HLA A*0101	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.367240
	0.742712	-2.624527	2329.376096			
HLA B*3901	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.463065
	1.838116	-2.624950	29044.590901			
HLA B*3901	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.303655
	1.678698	-2.624957	20121.254575			
HLA B*1801	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.465323
	1.839898	-2.625425	29195.984123			
HLA B*0801	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.376886
	1.751039	-2.625847	23816.950489			
HLA B*5101	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.419311
	1.793265	-2.626046	26260.972477			
HLA A*0202	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-3.832151
	1.203934	-2.628217	6794.398382			
HLA A*2603	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.789729
	1.161468	-2.628261	6162.099497			

HLA B*1503	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.218350
	1.590000	-2.628350	16532.934850			
HLA A*3101	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.307551
	1.678698	-2.628852	20302.545943			
HLA A*0211	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-3.706078
	1.075733	-2.630344	5082.502986			
HLA A*2403	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.284873
	1.653995	-2.630879	19269.625427			
HLA A*3002	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.499503
	1.867525	-2.631979	31586.639705			
HLA B*3501	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.811386
	1.179033	-2.632354	6477.184370			
HLA A*1101	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.653656
	1.020870	-2.632786	4504.596894			
HLA A*6802	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.611938
	0.977336	-2.634602	4092.026875			
HLA B*5701	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.322042
	1.687135	-2.634907	20991.434852			
HLA A*2301	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.502548
	1.867525	-2.635024	31808.878641			
HLA A*8001	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.368383
	1.732070	-2.636313	23355.188005			
HLA A*2402	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.005820
	1.368668	-2.637152	10134.918018			
HLA A*2602	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.369760
	1.732070	-2.637690	23429.345991			
HLA A*1101	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.477045
	1.838116	-2.638929	29994.712218			
HLA B*1501	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.317813
	1.678698	-2.639115	20788.016480			
HLA A*2402	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.479249
	1.839898	-2.639350	30147.306506			

HLA A*2601	1:44-52 9	QMSDPAYNI	1.440627	0.291443	-4.373284
	1.732070	-2.641214	23620.244746		
HLA A*0211	1:219-227 9	PRSAIDSML	1.524069	0.315829	-4.481666
	1.839898	-2.641768	30315.597792		
HLA B*3801	1:174-182 9	VSIAPNAGL	1.281479	0.469560	-4.393361
	1.751039	-2.642322	24737.781127		
HLA A*2501	1:219-227 9	PRSAIDSML	1.524069	0.315829	-4.484204
	1.839898	-2.644305	30493.240587		
HLA A*6801	1:85-93 9	TPREAPYEL	1.651184	0.319388	-4.614877
	1.970572	-2.644306	41198.104716		
HLA A*2603	1:126-134 9	TTYKAFDW	1.082766	0.285902	-4.014687
	1.368668	-2.646019	10343.968669		
HLA A*0101	1:44-52 9	QMSDPAYNI	1.440627	0.291443	-4.378141
	1.732070	-2.646070	23885.854299		
HLA A*2902	1:142-150 9	ITYDTLWQA	1.233555	-0.212685	-3.667175
	1.020870	-2.646305	4647.023511		
HLA A*2603	1:44-52 9	QMSDPAYNI	1.440627	0.291443	-4.378730
	1.732070	-2.646660	23918.310506		
HLA B*4403	1:199-207 9	FFFNPGELL	1.344812	0.501173	-4.492775
	1.845985	-2.646790	31101.010622		
HLA B*1502	1:190-198 9	FAVTNDGVI	1.178752	0.308175	-4.134196
	1.486927	-2.647270	13620.595655		
HLA A*2501	1:174-182 9	VSIAPNAGL	1.281479	0.469560	-4.399265
	1.751039	-2.648226	25076.389013		
HLA A*2601	1:48-56 9	PAYNINISL	1.435478	0.251657	-4.335892
	1.687135	-2.648757	21671.668032		
HLA B*3801	1:198-206 9	IFFNPGEL	1.210946	0.568277	-4.428361
	1.779223	-2.649138	26813.963925		
HLA B*5101	1:174-182 9	VSIAPNAGL	1.281479	0.469560	-4.400249
	1.751039	-2.649211	25133.295228		
HLA B*4403	1:24-32 9	APKTYCEEL	1.537287	0.413098	-4.600005
	1.950385	-2.649620	39811.175128		

HLA A*3301	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.517782
	1.867525	-2.650258	32944.462019			
HLA B*0802	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.337415
	1.687135	-2.650280	21747.773729			
HLA B*0803	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.429569
	1.779223	-2.650346	26888.628821			
HLA B*0702	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.383476
	1.732070	-2.651406	24181.122618			
HLA A*2902	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.338900
	1.687135	-2.651765	21822.257713			
HLA A*0301	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.242467
	1.590000	-2.652468	17477.021395			
HLA B*5701	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.385405
	1.732070	-2.653335	24288.762398			
HLA B*2705	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.432776
	1.779223	-2.653553	27087.922802			
HLA B*4403	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.624846
	1.970572	-2.654274	42154.709617			
HLA B*4002	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.628001
	1.973182	-2.654819	42462.099178			
HLA A*0301	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.342459
	1.687135	-2.655324	22001.847497			
HLA B*4801	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.040649
	1.384894	-2.655755	10981.179881			
HLA B*0802	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.388020
	1.732070	-2.655950	24435.451233			
HLA A*2301	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.408513
	1.751039	-2.657474	25616.074135			
HLA A*0212	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-3.461618
	0.804086	-2.657533	2894.799087			
HLA A*2501	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.436831
	1.779223	-2.657608	27342.039992			

HLA B*1501	1:78-86	9	LSAATSSTP	0.733359	0.025119	-3.417913
	0.758478		-2.659435	2617.660423		
HLA A*0202	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-3.706383
	1.046875		-2.659508	5086.078694		
HLA B*1517	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.507180
	0.847335		-2.659844	3214.990101		
HLA B*4501	1:85-93	9	TPREAPYEL	1.651184	0.319388	-4.630635
	1.970572		-2.660064	42720.392388		
HLA A*3301	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.610843
	1.950385		-2.660458	40817.196424		
HLA A*3201	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.000186
	1.339576		-2.660610	10004.287757		
HLA B*1503	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.000910
	1.339576		-2.661333	10020.971255		
HLA B*0801	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.340455
	1.678698		-2.661757	21900.550895		
HLA B*7301	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.612396
	1.950385		-2.662011	40963.417418		
HLA B*3501	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-2.940681
	0.278445		-2.662236	872.330815		
HLA A*2501	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-3.917108
	1.254764		-2.662344	8262.441266		
HLA B*1801	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.455843
	1.793265		-2.662578	28565.573446		
HLA A*0101	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.352616
	1.687135		-2.665481	22522.467752		
HLA B*4403	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.639291
	1.973182		-2.666108	43580.352207		
HLA A*2402	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.417762
	1.751039		-2.666724	26167.515730		
HLA A*3301	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.640616
	1.973182		-2.667433	43713.526662		

HLA A*3001	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.146418
	1.478828	-2.667590	14009.354387			
HLA A*2403	1:48-569		PAYNINISL	1.435478	0.251657	-4.354756
	1.687135	-2.667621	22633.741662			
HLA B*4801	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.138303
	1.470113	-2.668190	13750.009567			
HLA B*4402	1:48-569		PAYNINISL	1.435478	0.251657	-4.355987
	1.687135	-2.668852	22697.994412			
HLA B*0803	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.420598
	1.751039	-2.669560	26338.941779			
HLA B*7301	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.595675
	1.925846	-2.669829	39416.213007			
HLA B*4403	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.040193
	1.368668	-2.671525	10969.660975			
HLA A*2301	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.351378
	1.678698	-2.672679	22458.347384			
HLA B*4501	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.646177
	1.973182	-2.672995	44276.886719			
HLA B*1509	1:44-529		QMSDPAYNI	1.440627	0.291443	-4.405555
	1.732070	-2.673484	25442.194585			
HLA B*5701	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.002258
	1.328019	-2.674239	10052.137505			
HLA B*5801	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-3.935406
	1.260066	-2.675340	8617.993744			
HLA A*1101	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.455819
	1.779223	-2.676597	28564.028122			
HLA B*4501	1:7-15	9	MLVTAVVLL	1.492026	0.433820	-4.602585
	1.925846	-2.676738	40048.359575			
HLA A*2402	1:87-959		REAPYELNI	1.162222	0.222672	-4.061724
	1.384894	-2.676830	11527.201535			
HLA B*1502	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.517970
	1.839898	-2.678072	32958.723176			

HLA B*2705	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.268316
	1.590000	-2.678317	18548.827052			
HLA A*6901	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-3.679303
	1.000164	-2.679139	4778.624565			
HLA A*0211	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.422692
	0.742712	-2.679980	2646.623470			
HLA A*3301	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.519523
	1.838116	-2.681408	33076.792463			
HLA A*0250	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.521704
	1.839898	-2.681806	33243.267970			
HLA A*0101	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.361185
	1.678698	-2.682486	22971.245622			
HLA A*3201	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.862464
	1.179033	-2.683431	7285.578855			
HLA A*0211	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-2.726934
	0.040514	-2.686420	533.254424			
HLA A*2603	1:24-32 9		APKTYCEEL	1.537287	0.413098	-4.636932
	1.950385	-2.686547	43344.285954			
HLA A*0301	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.365362
	1.678698	-2.686664	23193.267123			
HLA A*0203	1:15-23 9		LCCSGVATA	1.215808	-0.196223	-3.706350
	1.019585	-2.686766	5085.693497			
HLA A*8001	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.365477
	1.678698	-2.686779	23199.416115			
HLA A*3201	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.365891
	1.678698	-2.687192	23221.515738			
HLA A*6801	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.438743
	1.751039	-2.687705	27462.710260			
HLA A*3201	1:87-95 9		REAPYELNI	1.162222	0.222672	-4.073565
	1.384894	-2.688671	11845.824403			
HLA A*2402	1:48-56 9		PAYNINISL	1.435478	0.251657	-4.376463
	1.687135	-2.689328	23793.769306			

HLA B*1501	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.159735
	1.470113	-2.689622	14445.580624			
HLA A*6901	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.369060
	1.678698	-2.690362	23391.604872			
HLA B*3801	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.378456
	1.687135	-2.691320	23903.176033			
HLA B*4601	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.030198
	1.338234	-2.691965	10720.091603			
HLA A*3002	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.379153
	1.687135	-2.692018	23941.613023			
HLA B*1501	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.031749
	1.339576	-2.692173	10758.436392			
HLA A*2602	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.539870
	1.845985	-2.693885	34663.301803			
HLA A*2501	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.372911
	1.678698	-2.694212	23599.936000			
HLA A*1101	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-3.942055
	1.245899	-2.696157	8750.950295			
HLA B*5301	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-3.771943
	1.075247	-2.696696	5914.841413			
HLA B*5401	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.717684
	1.020870	-2.696814	5220.163412			
HLA B*7301	1:199-207	9	FFFNPGELL	1.344812	0.501173	-4.543112
	1.845985	-2.697128	34923.054182			
HLA B*5801	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.351796
	1.653995	-2.697801	22479.984296			
HLA A*6801	1:24-32	9	APKTYCEEL	1.537287	0.413098	-4.648313
	1.950385	-2.697927	44495.158506			
HLA A*2601	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.377194
	1.678698	-2.698496	23833.835436			
HLA B*1801	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.386608
	1.687135	-2.699473	24356.132208			

HLA A*3201	1:64-72 9		KSLENYIAQ	0.805806	0.003219	-3.508975
	0.809025	-2.699950	3228.305653			
HLA A*0211	1:21-29 9		ATAAPKTYC	0.926919	0.086501	-3.714343
	1.013420	-2.700923	5180.159483			
HLA B*4801	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.380843
	1.678698	-2.702144	24034.920314			
HLA A*2403	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.380972
	1.678698	-2.702274	24042.072822			
HLA B*1517	1:26-34 9		KTYCEELKG	0.984658	-0.550231	-3.137563
	0.434427	-2.703136	1372.661202			
HLA A*8001	1:48-56 9		PAYNINISL	1.435478	0.251657	-4.391021
	1.687135	-2.703886	24604.846253			
HLA B*0803	1:48-56 9		PAYNINISL	1.435478	0.251657	-4.391274
	1.687135	-2.704139	24619.226278			
HLA B*0702	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.191904
	1.486927	-2.704978	15556.222677			
HLA B*4403	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.572965
	1.867525	-2.705440	37408.024523			
HLA B*1503	1:63-71 9		QKSLENYIA	1.220826	-0.266570	-3.659957
	0.954256	-2.705701	4570.432000			
HLA A*2501	1:48-56 9		PAYNINISL	1.435478	0.251657	-4.393133
	1.687135	-2.705998	24724.803153			
HLA A*0201	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.385257
	1.678698	-2.706559	24280.485639			
HLA B*4001	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.385725
	1.678698	-2.707027	24306.639307			
HLA B*2705	1:48-56 9		PAYNINISL	1.435478	0.251657	-4.394564
	1.687135	-2.707429	24806.396381			
HLA A*0212	1:14-22 9		LLCCSGVAT	1.136854	-0.272198	-3.572627
	0.864656	-2.707971	3737.893250			
HLA A*6801	1:106-114	9	PRGTQAVVL	1.809522	0.163660	-4.681314
	1.973182	-2.708131	48008.001192			

HLA B*5401	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.547130
	1.838116	-2.709014	35247.623193			
HLA A*2602	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.871195
	1.161468	-2.709727	7433.524025			
HLA A*3201	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.548159
	1.838116	-2.710043	35331.242575			
HLA B*3501	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.413534
	0.701666	-2.711868	2591.396494			
HLA A*2403	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.198915
	1.486927	-2.711988	15809.386406			
HLA B*0702	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.183032
	1.470113	-2.712920	15241.667943			
HLA B*1801	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.464830
	1.751039	-2.713791	29162.834079			
HLA B*4002	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.493139
	1.779223	-2.713916	31127.100777			
HLA A*6801	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-3.638849
	0.924700	-2.714150	4353.609565			
HLA B*4402	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.368571
	1.653995	-2.714577	23365.298110			
HLA B*4403	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.508871
	1.793265	-2.715606	32275.339803			
HLA A*0211	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.043905
	1.328019	-2.715886	11063.827398			
HLA B*0801	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.203567
	1.486927	-2.716640	15979.640136			
HLA A*6901	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.371207
	1.653995	-2.717213	23507.554334			
HLA B*1801	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.449511
	1.732070	-2.717441	28152.118685			
HLA A*0212	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.570522
	0.852998	-2.717524	3719.818549			

HLA B*4601	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.396241
	1.678698	-2.717543	24902.400373			
HLA B*5401	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.557470
	1.839898	-2.717572	36096.901187			
HLA B*5301	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.497652
	1.779223	-2.718429	31452.272698			
HLA A*2902	1:12-209	VVLLCCSGV	1.181551	0.297277	-4.197815	
	1.478828	-2.718987	15769.410384			
HLA B*1517	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.498933
	0.779687	-2.719246	3154.517549			
HLA A*0203	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.398057
	1.678698	-2.719359	25006.756382			
HLA A*2601	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.373919
	1.653995	-2.719924	23654.771341			
HLA B*0801	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.048078
	1.328019	-2.720059	11170.640550			
HLA A*6801	1:18-269	SGVATAAPK	0.424227	0.140104	-3.284430	
	0.564331	-2.720099	1924.995267			
HLA A*1101	1:48-569	PAYNINISL	1.435478	0.251657	-4.407716	
	1.687135	-2.720581	25569.138526			
HLA B*1501	1:12-209	VVLLCCSGV	1.181551	0.297277	-4.199596	
	1.478828	-2.720768	15834.208710			
HLA B*5301	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.559702
	1.838116	-2.721586	36282.894947			
HLA A*2602	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.561791
	1.839898	-2.721892	36457.813881			
HLA A*6901	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.062184
	1.339576	-2.722608	11539.430750			
HLA A*0201	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.211132
	1.486927	-2.724206	16260.441617			
HLA A*6802	1:46-549	SDPAYNINI	1.266370	0.129806	-4.120470	
	1.396176	-2.724295	13196.853913			

HLA B*4002	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.564281
	1.839898	-2.724383	36667.481169			
HLA B*1517	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.886499
	1.161468	-2.725032	7700.151939			
HLA B*5401	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.505081
	1.779223	-2.725858	31994.925556			
HLA A*0202	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-3.745464
	1.019585	-2.725880	5564.990266			
HLA A*2603	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.565952
	1.839898	-2.726053	36808.791708			
HLA A*0212	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.197284
	1.470113	-2.727172	15750.141934			
HLA B*5301	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.479124
	1.751039	-2.728085	30138.663785			
HLA A*0250	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.582260
	0.852998	-2.729262	3821.728076			
HLA A*0212	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.408522
	1.678698	-2.729824	25616.628461			
HLA B*2705	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.409293
	1.678698	-2.730594	25662.124078			
HLA B*7301	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.598288
	1.867525	-2.730763	39654.047597			
HLA A*0219	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-3.976940
	1.245899	-2.731042	9482.882522			
HLA A*3001	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.708549
	0.977336	-2.731213	5111.511011			
HLA A*3201	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.571116
	1.839898	-2.731218	37249.095330			
HLA B*4001	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.385349
	1.653995	-2.731354	24285.609014			
HLA A*0201	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.385678
	1.653995	-2.731683	24304.009525			

HLA A*3001	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.267262
	1.534232		18503.825881			
HLA A*0203	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.203431
	1.470113		15974.626934			
HLA B*2705	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.388023
	1.653995		24435.583427			
HLA A*2501	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.913664
	1.179033		8197.171856			
HLA B*0801	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.913819
	1.179033		8200.099201			
HLA B*5401	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.422271
	1.687135		26440.590839			
HLA A*2602	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.574976
	1.838116		37581.657764			
HLA A*6801	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.424329
	1.687135		26566.191843			
HLA A*0216	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.391573
	1.653995		24636.146875			
HLA A*0101	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-3.985041
	1.245899		9661.429623			
HLA B*3901	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.329506
	1.590000		21355.337494			
HLA B*1517	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-3.976414
	1.236794		9471.397981			
HLA A*0211	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.393918
	1.653995		24769.518859			
HLA B*0802	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.419663
	1.678698		26282.291469			
HLA A*3002	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.081897
	1.339576		12075.262052			
HLA A*2603	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.580859
	1.838116		38094.216334			

HLA B*5401	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.536505
	1.793265	-2.743241	34395.804032			
HLA B*4801	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.397282
	1.653995	-2.743287	24962.152562			
HLA B*1501	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.128383
	1.384894	-2.743490	13439.511234			
HLA A*6901	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.721147
	0.977336	-2.743811	5261.956327			
HLA A*2902	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.334001
	1.590000	-2.744001	21577.493979			
HLA A*0101	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.398753
	1.653995	-2.744758	25046.832460			
HLA B*4501	1:150-158	9	ADTDLPVVV	1.257750	0.027453	-4.030335
	1.285203	-2.745131	10723.455812			
HLA A*6801	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.478008
	1.732070	-2.745938	30061.315964			
HLA B*1502	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.433814
	1.687135	-2.746679	27152.772160			
HLA B*1517	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.132425
	1.384894	-2.747531	13565.149638			
HLA A*3002	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.085787
	1.338234	-2.747554	12183.927654			
HLA B*4002	1:209-217	9	EAAGPTQVL	1.572811	0.294714	-4.617410
	1.867525	-2.749885	41439.068265			
HLA B*1501	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.405005
	1.653995	-2.751010	25410.007331			
HLA A*6802	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.429724
	1.678698	-2.751025	26898.231192			
HLA A*0219	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.430548
	1.678698	-2.751850	26949.355990			
HLA A*6801	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.772841
	1.020870	-2.751971	5927.077532			

HLA B*0702	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.408221
	1.653995	-2.754227	25598.895962			
HLA B*3501	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.408449
	1.653995	-2.754455	25612.332745			
HLA B*7301	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.534259
	1.779223	-2.755036	34218.373174			
HLA A*2403	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-3.680238
	0.924700	-2.755538	4788.924678			
HLA A*2603	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.548812
	1.793265	-2.755547	35384.418945			
HLA B*1801	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.345659
	1.590000	-2.755660	22164.561754			
HLA A*3301	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.442843
	1.687135	-2.755708	27723.192867			
HLA B*4601	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.409774
	1.653995	-2.755780	25690.599860			
HLA A*0212	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.410200
	1.653995	-2.756205	25715.768157			
HLA B*1509	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.411038
	1.653995	-2.757044	25765.481794			
HLA A*0250	1:1-9	9	VRKIFMLV	0.881917	0.241018	-3.880292
	1.122935	-2.757357	7590.877018			
HLA A*2603	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.537194
	1.779223	-2.757971	34450.367969			
HLA B*7301	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.596333
	1.838116	-2.758217	39475.964706			
HLA A*2602	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.551845
	1.793265	-2.758581	35632.414646			
HLA B*0801	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.098268
	1.339576	-2.758691	12539.140709			
HLA A*0216	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.438762
	1.678698	-2.760064	27463.898847			

HLA B*5801	1:87-95 9	REAPYELNI	1.162222	0.222672	-4.146305
	1.384894	-2.761411	14005.716984		
HLA B*0803	1:62-70 9	DQKSLENYI	1.150042	0.062507	-3.974238
	1.212549	-2.761689	9424.069117		
HLA A*6901	1:99-107 9	TYQSAIPPR	0.787540	0.802460	-4.351944
	1.590000	-2.761944	22487.647298		
HLA B*5701	1:131-139 9	AFDWDQAYR	0.906877	0.747118	-4.416646
	1.653995	-2.762652	26100.359457		
HLA A*0201	1:154-162 9	PLPVVFPVIV	1.026322	-0.131179	-3.658054
	0.895143	-2.762911	4550.448137		
HLA B*5801	1:99-107 9	TYQSAIPPR	0.787540	0.802460	-4.353250
	1.590000	-2.763251	22555.389685		
HLA B*0802	1:131-139 9	AFDWDQAYR	0.906877	0.747118	-4.417972
	1.653995	-2.763977	26180.117903		
HLA B*4002	1:158-166 9	VFPIVQGEL	1.307815	0.530301	-4.602477
	1.838116	-2.764361	40038.394585		
HLA B*5401	1:5-13 9	IFMLVTAVV	1.049669	0.289907	-4.104593
	1.339576	-2.765016	12723.089714		
HLA A*0212	1:210-218 9	AAGPTQVLV	0.899889	0.077447	-3.742593
	0.977336	-2.765257	5528.322096		
HLA A*0219	1:112-120 9	VVLKVYQNA	1.087232	-0.069403	-3.783113
	1.017829	-2.765284	6068.935986		
HLA A*6801	1:102-110 9	SAIPPRGTQ	1.076283	0.007255	-3.849594
	1.083538	-2.766056	7072.835938		
HLA A*0202	1:87-95 9	REAPYELNI	1.162222	0.222672	-4.152165
	1.384894	-2.767271	14195.966370		
HLA A*3101	1:12-20 9	VVLLCCSGV	1.181551	0.297277	-4.246628
	1.478828	-2.767800	17645.271939		
HLA B*0801	1:131-139 9	AFDWDQAYR	0.906877	0.747118	-4.422032
	1.653995	-2.768037	26426.004716		
HLA A*0219	1:131-139 9	AFDWDQAYR	0.906877	0.747118	-4.422064
	1.653995	-2.768070	26428.006257		

HLA B*0702	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.107412
	1.338234	-2.769178	12805.955004			
HLA B*4402	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.137871
	1.368668	-2.769202	13736.329347			
HLA B*5801	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.007282
	1.236794	-2.770488	10169.078964			
HLA B*4403	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.610596
	1.839898	-2.770698	40794.017275			
HLA A*3001	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.241847
	1.470113	-2.771734	17452.078342			
HLA A*2403	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-3.580267
	0.808230	-2.772037	3804.235724			
HLA A*0201	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.242973
	1.470113	-2.772860	17497.361203			
HLA A*2402	1:1-9	9	VRKIFMLV	0.881917	0.241018	-3.896560
	1.122935	-2.773625	7880.609166			
HLA B*0702	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.028479
	1.254764	-2.773715	10677.723569			
HLA B*4402	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.059163
	1.285203	-2.773960	11459.428191			
HLA A*0206	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.453188
	1.678698	-2.774490	28391.479779			
HLA B*1501	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.308941
	1.534232	-2.774709	20367.672214			
HLA A*1101	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.453484
	1.678698	-2.774786	28410.839316			
HLA B*5401	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.526600
	1.751039	-2.775561	33620.180221			
HLA A*3001	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.262645
	1.486927	-2.775718	18308.164043			
HLA A*2602	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.366729
	1.590000	-2.776730	23266.407494			

HLA A*2602	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.556279
	1.779223	-2.777056	35998.029763			
HLA A*0206	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.956152
	1.179033	-2.777119	9039.660645			
HLA A*3301	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.528177
	1.751039	-2.777138	33742.444451			
HLA A*0211	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-3.796791
	1.019585	-2.777207	6263.127580			
HLA A*6801	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.615528
	1.838116	-2.777412	41259.887975			
HLA A*0203	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.431641
	1.653995	-2.777646	27017.235091			
HLA B*3801	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.456898
	1.678698	-2.778200	28635.044713			
HLA A*0216	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-3.854048
	1.075733	-2.778315	7145.756415			
HLA A*1101	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.118112
	1.338234	-2.779878	13125.369134			
HLA B*4002	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.026905
	1.246912	-2.779993	10639.090874			
HLA B*0803	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.434202
	1.653995	-2.780207	27177.020406			
HLA B*1501	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.960767
	1.179033	-2.781734	9136.219301			
HLA A*6802	1:8-16	9	LVTAVLLC	0.979168	0.067707	-3.829571
	1.046875	-2.782697	6754.158890			
HLA A*2601	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.373155
	1.590000	-2.783156	23613.217732			
HLA A*3301	1:219-227	9	PRSAIDSMML	1.524069	0.315829	-4.623702
	1.839898	-2.783804	42043.794317			
HLA A*2403	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-3.622243
	0.837899	-2.784344	4190.282649			

HLA A*6901	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.112506
	1.328019	-2.784486	12957.035689			
HLA A*6802	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.438638
	1.653995	-2.784643	27456.025414			
HLA B*0801	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-3.946754
	1.161468	-2.785286	8846.147716			
HLA B*1501	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.375653
	1.590000	-2.785653	23749.401752			
HLA A*0211	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.639005
	0.852998	-2.786007	4355.164310			
HLA A*3001	1:96-104	9	TSATYQSAI	0.928477	0.250556	-3.965409
	1.179033	-2.786376	9234.408831			
HLA A*6801	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-3.741592
	0.954978	-2.786614	5515.596124			
HLA A*2301	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.274390
	1.486927	-2.787463	18810.046563			
HLA B*1509	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.466404
	1.678698	-2.787706	29268.730239			
HLA B*1501	1:79-879		SAATSSTPR	0.650358	0.717768	-4.156596
	1.368126	-2.788470	14341.549973			
HLA A*3301	1:44-529		QMSDPAYNI	1.440627	0.291443	-4.520764
	1.732070	-2.788694	33171.408790			
HLA B*0803	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.467471
	1.678698	-2.788772	29340.705217			
HLA A*0201	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.766643
	0.977336	-2.789307	5843.091226			
HLA B*2705	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.259941
	1.470113	-2.789828	18194.517283			
HLA B*4501	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-3.793408
	1.002409	-2.790999	6214.525866			
HLA A*0301	1:66-749		LENYIAQTR	0.964649	0.569583	-4.326118
	1.534232	-2.791886	21189.391341			

HLA B*3901	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.029169
	1.236794			10694.720080		
HLA B*1503	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.047890
	1.254764			11165.807042		
HLA A*0202	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-3.869386
	1.075733			7402.623234		
HLA B*0801	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-3.647138
	0.853458			4437.500977		
HLA A*3101	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-3.865814
	1.071973			7342.000821		
HLA B*4001	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.153488
	0.357949			1423.928452		
HLA A*0203	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-3.842465
	1.046875			6957.692755		
HLA A*0202	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.449786
	1.653995			28169.943407		
HLA B*0802	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.386096
	1.590000			24327.424593		
HLA B*1509	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.386860
	1.590000			24370.235034		
HLA A*3001	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-3.722482
	0.924700			5278.150224		
HLA A*6802	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.166008
	1.368126			14655.752678		
HLA B*4601	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.387966
	1.590000			24432.410982		
HLA B*1503	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.775787
	0.977336			5967.423530		
HLA B*5801	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.136912
	1.338234			13706.043480		
HLA B*4403	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.578120
	1.779223			37854.676949		

HLA A*3101	1:64-72 9		KSLENYIAQ	0.805806	0.003219	-3.608090
	0.809025	-2.799066	4055.925983			
HLA A*3201	1:12-20 9		VVLLCCSGV	1.181551	0.297277	-4.278407
	1.478828	-2.799579	18984.863983			
HLA A*8001	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.453599
	1.653995	-2.799605	28418.371589			
HLA A*3002	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.270304
	1.470113	-2.800191	18633.915262			
HLA A*2602	1:48-56 9		PAYNINISL	1.435478	0.251657	-4.487758
	1.687135	-2.800623	30743.856978			
HLA B*5401	1:12-20 9		VVLLCCSGV	1.181551	0.297277	-4.279775
	1.478828	-2.800947	19044.733081			
HLA A*0216	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.288076
	1.486927	-2.801149	19412.238604			
HLA B*4402	1:46-54 9		SDPAYNINI	1.266370	0.129806	-4.197421
	1.396176	-2.801245	15755.084687			
HLA B*0702	1:12-20 9		VVLLCCSGV	1.181551	0.297277	-4.280630
	1.478828	-2.801802	19082.272913			
HLA B*4501	1:199-207	9	FFFNPGEEL	1.344812	0.501173	-4.647848
	1.845985	-2.801863	44447.522676			
HLA A*6801	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.642425
	1.839898	-2.802527	43896.000162			
HLA B*4001	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.392823
	1.590000	-2.802823	24707.153341			
HLA A*0201	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.392919
	1.590000	-2.802919	24712.634130			
HLA A*6901	1:46-54 9		SDPAYNINI	1.266370	0.129806	-4.199333
	1.396176	-2.803158	15824.617549			
HLA B*1509	1:66-74 9		LENYIAQTR	0.964649	0.569583	-4.337506
	1.534232	-2.803274	21752.362682			
HLA B*1503	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-3.422687
	0.619394	-2.803294	2646.594834			

HLA B*1801	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.457523
	1.653995	-2.803528	28676.281079			
HLA B*1503	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-3.691445
	0.886699	-2.804746	4914.111993			
HLA B*4501	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.405381
	0.600517	-2.804864	2543.203742			
HLA B*5401	1:44-52	9	QMSPAYNI	1.440627	0.291443	-4.538209
	1.732070	-2.806139	34530.975119			
HLA B*3801	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.460446
	1.653995	-2.806451	28869.920500			
HLA A*2902	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.146070
	1.339576	-2.806494	13998.142096			
HLA B*4403	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.644767
	1.838116	-2.806652	44133.399890			
HLA B*3901	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.191796
	1.384894	-2.806902	15552.351917			
HLA A*3201	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-3.426663
	0.619394	-2.807269	2670.931740			
HLA B*4501	1:219-227	9	PRSAIDSML	1.524069	0.315829	-4.647211
	1.839898	-2.807313	44382.406798			
HLA A*6901	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-3.663434
	0.856017	-2.807417	4607.172674			
HLA B*0801	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.286342
	1.478828	-2.807513	19334.889786			
HLA A*2602	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.177351
	1.368668	-2.808683	15043.588354			
HLA A*2902	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.295812
	1.486927	-2.808886	19761.161836			
HLA A*3001	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.194052
	1.384894	-2.809158	15633.333062			
HLA A*6802	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.827095
	1.017829	-2.809266	6715.756111			

HLA B*1517	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.463686
	1.653995	-2.809691	29086.102334			
HLA A*3002	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.488574
	1.678698	-2.809875	30801.624520			
HLA B*4001	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.297361
	1.486927	-2.810434	19831.738421			
HLA B*3901	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.467830
	1.653995	-2.813835	29365.000955			
HLA A*0212	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.403865
	1.590000	-2.813866	25343.424038			
HLA B*4801	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.405653
	1.590000	-2.815654	25447.976099			
HLA B*1503	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.469743
	1.653995	-2.815748	29494.599278			
HLA B*0801	1:1-9	9	VRKIFMLV	0.881917	0.241018	-3.939151
	1.122935	-2.816216	8692.631186			
HLA A*0203	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.201175
	1.384894	-2.816281	15891.877876			
HLA A*3201	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.351246
	1.534232	-2.817014	22451.544573			
HLA B*4601	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.156864
	1.339576	-2.817288	14350.397528			
HLA B*4501	1:158-166	9	VFPIVQGEL	1.307815	0.530301	-4.655465
	1.838116	-2.817349	45233.958010			
HLA B*3501	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.407467
	1.590000	-2.817467	25554.480151			
HLA B*7301	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.549898
	1.732070	-2.817827	35472.968270			
HLA A*0301	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.296759
	1.478828	-2.817931	19804.291830			
HLA A*2902	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-3.485438
	0.666762	-2.818675	3058.000175			

HLA B*5801	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.353466
	1.534232	-2.819235	22566.618518		
HLA B*4801	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.353579
	1.534232	-2.819347	22572.479258		
HLA A*2402	1:131-139 9	AFDWDQAYR	0.906877	0.747118	-4.473910
	1.653995	-2.819916	29779.025833		
HLA B*0801	1:218-226 9	VPRSAIDSM	0.858689	0.068844	-3.748444
	0.927533	-2.820911	5603.295882		
HLA B*7301	1:48-56 9	PAYNINISL	1.435478	0.251657	-4.508215
	1.687135	-2.821080	32226.661472		
HLA A*0101	1:99-107 9	TYQSAIPPR	0.787540	0.802460	-4.411727
	1.590000	-2.821727	25806.354981		
HLA A*2603	1:140-148 9	KPITYDTLW	1.293618	0.385080	-4.500610
	1.678698	-2.821912	31667.226915		
HLA B*3501	1:202-210 9	NPGELLPEA	1.188654	-0.463299	-3.547459
	0.725355	-2.822104	3527.436553		
HLA B*4001	1:147-155 9	LWQADTDPL	0.954861	0.515252	-4.292251
	1.470113	-2.822138	19599.755585		
HLA B*4402	1:99-107 9	TYQSAIPPR	0.787540	0.802460	-4.412417
	1.590000	-2.822418	25847.432838		
HLA B*5701	1:99-107 9	TYQSAIPPR	0.787540	0.802460	-4.412488
	1.590000	-2.822488	25851.628131		
HLA B*1502	1:147-155 9	LWQADTDPL	0.954861	0.515252	-4.293108
	1.470113	-2.822995	19638.495685		
HLA B*3901	1:4-12 9	KIFMLVTAV	1.048201	0.290033	-4.162578
	1.338234	-2.824344	14540.451072		
HLA A*6901	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.358917
	1.534232	-2.824685	22851.635732		
HLA B*2705	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.359460
	1.534232	-2.825228	22880.210916		
HLA A*2602	1:140-148 9	KPITYDTLW	1.293618	0.385080	-4.504153
	1.678698	-2.825455	31926.628399		

HLA A*2501	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.480245
	1.653995	-2.826250	30216.537557			
HLA A*0203	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.804178
	0.977336	-2.826842	6370.566290			
HLA B*2705	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.211912
	1.384894	-2.827018	16289.672967			
HLA B*4002	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.578698
	1.751039	-2.827659	37905.088730			
HLA B*5101	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.306822
	1.478828	-2.827994	20268.525776			
HLA B*0801	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.418484
	1.590000	-2.828484	26211.011792			
HLA A*3002	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.315734
	1.486927	-2.828807	20688.726492			
HLA B*7301	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.580168
	1.751039	-2.829130	38033.675359			
HLA A*6802	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.089645
	1.260066	-2.829579	12292.640079			
HLA B*4403	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.580911
	1.751039	-2.829872	38098.750485			
HLA B*1517	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-3.639164
	0.809025	-2.830140	4356.766750			
HLA A*3001	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.227391
	1.396176	-2.831215	16880.712472			
HLA A*3301	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.624691
	1.793265	-2.831426	42139.660851			
HLA A*6802	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.422217
	1.590000	-2.832218	26437.301109			
HLA A*0201	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.575108
	0.742712	-2.832396	3759.308360			
HLA B*4801	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.170975
	1.338234	-2.832741	14824.325380			

HLA A*0101	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.320459
	1.486927	-2.833532	20915.033886			
HLA A*0206	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-2.874426
	0.040514	-2.833911	748.903288			
HLA B*4801	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.321201
	1.486927	-2.834274	20950.819238			
HLA A*0206	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.163945
	1.328019	-2.835926	14586.304638			
HLA A*0203	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.096275
	1.260066	-2.836209	12481.748071			
HLA A*2301	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.222386
	1.384894	-2.837492	16687.311371			
HLA B*1502	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.516528
	1.678698	-2.837829	32849.426734			
HLA B*1501	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.618104
	0.779687	-2.838416	4150.529701			
HLA B*1801	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.223364
	1.384894	-2.838470	16724.908688			
HLA A*1101	1:160-168	9	PIVQGELSK	0.947962	0.037882	-3.825013
	0.985844	-2.839169	6683.643427			
HLA B*4002	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.526621
	1.687135	-2.839486	33621.817194			
HLA A*0203	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.430109
	1.590000	-2.840109	26922.106480			
HLA A*0216	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.430506
	1.590000	-2.840507	26946.731843			
HLA B*0702	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.430546
	1.590000	-2.840546	26949.210197			
HLA B*0801	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.311822
	1.470113	-2.841709	20503.210273			
HLA B*4501	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.573881
	1.732070	-2.841811	37487.033416			

HLA A*0203	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.694880
	0.852998	-2.841882	4953.133082			
HLA A*0203	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-3.619823
	0.776623	-2.843201	4166.998547			
HLA A*3101	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-3.799347
	0.954978	-2.844370	6300.100799			
HLA A*6901	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.314973
	1.470113	-2.844860	20652.494970			
HLA B*0803	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.434956
	1.590000	-2.844956	27224.256327			
HLA A*0211	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.006732
	1.161468	-2.845264	10156.213929			
HLA B*1503	1:43-519		IQMSDPAYN	0.678035	-0.520108	-3.003398
	0.157927	-2.845472	1007.855725			
HLA B*5101	1:56-649		LPSYYPDQK	0.981412	0.093835	-3.922052
	1.075247	-2.846804	8357.025008			
HLA A*2501	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.438168
	1.590000	-2.848168	27426.334668			
HLA A*0219	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.335274
	1.486927	-2.848348	21640.855490			
HLA B*4601	1:66-749		LENYIAQTR	0.964649	0.569583	-4.382656
	1.534232	-2.848425	24135.510490			
HLA A*2601	1:66-749		LENYIAQTR	0.964649	0.569583	-4.383246
	1.534232	-2.849014	24168.305930			
HLA A*2403	1:87-959		REAPYELNI	1.162222	0.222672	-4.233936
	1.384894	-2.849043	17137.064758			
HLA A*0206	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-3.597273
	0.748062	-2.849211	3956.152206			
HLA B*5701	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.336860
	1.486927	-2.849934	21720.025328			
HLA A*0206	1:46-549		SDPAYNINI	1.266370	0.129806	-4.246177
	1.396176	-2.850002	17626.953333			

HLA A*3002	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-3.933630
	1.083538	-2.850092	8582.819196			
HLA A*0202	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.178559
	1.328019	-2.850540	15085.478018			
HLA A*2501	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.189254
	1.338234	-2.851020	15461.582144			
HLA B*5701	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.385419
	1.534232	-2.851188	24289.550808			
HLA B*4601	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.321697
	1.470113	-2.851584	20974.747972			
HLA A*2501	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.338679
	1.486927	-2.851752	21811.163271			
HLA A*0201	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.386622
	1.534232	-2.852390	24356.922804			
HLA B*3501	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.331778
	1.478828	-2.852950	21467.347740			
HLA B*1509	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.323311
	1.470113	-2.853198	21052.847634			
HLA A*0250	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.340316
	1.486927	-2.853390	21893.561717			
HLA B*1509	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-3.920844
	1.067238	-2.853606	8333.819049			
HLA A*0250	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.108568
	1.254764	-2.853804	12840.085574			
HLA B*5801	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.333519
	1.478828	-2.854691	21553.577214			
HLA A*2301	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.508702
	1.653995	-2.854707	32262.770618			
HLA A*0101	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.390323
	1.534232	-2.856091	24565.344477			
HLA B*1502	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.196462
	1.339576	-2.856886	15720.347867			

HLA A*0206	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.511368
	1.653995	-2.857374	32461.480700			
HLA B*5101	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.511761
	1.653995	-2.857766	32490.821325			
HLA A*6901	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.143467
	1.285203	-2.858264	13914.486006			
HLA B*0803	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.393076
	1.534232	-2.858844	24721.593158			
HLA B*3901	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.198920
	1.339576	-2.859343	15809.557461			
HLA A*0219	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.329793
	1.470113	-2.859680	21369.436807			
HLA B*0801	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.394369
	1.534232	-2.860137	24795.260293			
HLA A*0203	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.394688
	1.534232	-2.860456	24813.509993			
HLA A*8001	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.246899
	1.384894	-2.862005	17656.253135			
HLA A*2902	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.333526
	1.470113	-2.863413	21553.927025			
HLA A*0211	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.123647
	1.260066	-2.863581	13293.731807			
HLA A*0211	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.543028
	1.678698	-2.864329	34916.253370			
HLA B*1503	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-3.940641
	1.076055	-2.864586	8722.496967			
HLA A*0250	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.520336
	1.653995	-2.866342	33138.764301			
HLA A*6802	1:53-61	9	NISLPSYYP	0.515820	0.118220	-3.501564
	0.634040	-2.867525	3173.689032			
HLA A*2402	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.354512
	1.486927	-2.867585	22621.010856			

HLA B*4501	1:198-206	9	IFFFNPGEL	1.210946	0.568277	-4.647808
	1.779223	-2.868585	44443.435109			
HLA A*0219	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.459109
	1.590000	-2.869109	28781.188971			
HLA B*2705	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.207354
	1.338234	-2.869121	16119.603851			
HLA B*3801	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.459214
	1.590000	-2.869215	28788.196461			
HLA A*0202	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.469842
	0.600517	-2.869324	2950.133196			
HLA B*5801	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.339755
	1.470113	-2.869642	21865.272434			
HLA B*3501	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.404105
	1.534232	-2.869873	25357.412619			
HLA A*0101	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.349799
	1.478828	-2.870971	22376.849516			
HLA B*1517	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-3.909139
	1.037888	-2.871251	8112.205284			
HLA B*5801	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.117167
	1.245899	-2.871269	13096.855420			
HLA A*0203	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.032830
	1.161468	-2.871362	10785.242629			
HLA A*0211	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.256959
	1.384894	-2.872065	18070.036982			
HLA A*3001	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-3.492824
	0.619394	-2.873431	3110.457608			
HLA A*0211	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.343601
	1.470113	-2.873488	22059.771003			
HLA A*2301	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-3.798558
	0.924700	-2.873858	6288.659364			
HLA A*8001	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.464376
	1.590000	-2.874377	29132.400804			

HLA B*1502	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-3.874996
	1.000164	-2.874832	7498.876758			
HLA A*6801	1:168-176	9	KQTGQQVSI	1.475491	0.317774	-4.668215
	1.793265	-2.874951	46581.690517			
HLA B*4501	1:174-182	9	VSIAPNAGL	1.281479	0.469560	-4.626371
	1.751039	-2.875332	42302.975693			
HLA B*1503	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.896536
	1.020870	-2.875667	7880.182846			
HLA A*0212	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.410340
	1.534232	-2.876108	25724.116680			
HLA B*1501	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.113380
	1.236794	-2.876586	12983.137705			
HLA B*1517	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.467473
	1.590000	-2.877473	29340.863948			
HLA A*6901	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.246064
	1.368126	-2.877938	17622.376653			
HLA B*1517	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-3.961664
	1.083538	-2.878126	9155.119531			
HLA A*0201	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.896076
	1.017829	-2.878247	7871.831614			
HLA A*0301	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.366647
	1.486927	-2.879721	23262.002507			
HLA B*5801	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.727655
	0.847335	-2.880320	5341.402590			
HLA A*6802	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.727839
	0.847335	-2.880503	5343.656985			
HLA B*1501	1:77-85	9	FLSAATSST	0.627583	-0.297236	-3.212108
	0.330347	-2.881760	1629.700575			
HLA A*2902	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.416242
	1.534232	-2.882010	26076.084344			
HLA A*6802	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.352158
	1.470113	-2.882045	22498.720690			

HLA B*3501	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.221644
	1.339576	-2.882068	16658.808366			
HLA A*3101	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.369091
	1.486927	-2.882164	23393.250028			
HLA B*0702	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.250362
	1.368126	-2.882236	17797.610069			
HLA B*4601	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.362547
	1.478828	-2.883719	23043.436519			
HLA A*6901	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-3.960395
	1.076055	-2.884341	9128.413341			
HLA A*0202	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.563203
	1.678698	-2.884504	36576.543664			
HLA A*8001	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.419830
	1.534232	-2.885598	26292.388492			
HLA A*6802	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.420648
	1.534232	-2.886416	26341.934255			
HLA B*0803	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.357158
	1.470113	-2.887045	22759.228090			
HLA B*4403	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.620471
	1.732070	-2.888401	41732.207771			
HLA B*4002	1:44-52	9	QMSDPAYNI	1.440627	0.291443	-4.620495
	1.732070	-2.888425	41734.465499			
HLA B*3501	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-3.744816
	0.856017	-2.888799	5556.687215			
HLA A*8001	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.258521
	1.368668	-2.889853	18135.162395			
HLA B*1503	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.288550
	1.396176	-2.892375	19433.463847			
HLA B*0802	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.427539
	1.534232	-2.893307	26763.240761			
HLA B*0702	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.428286
	1.534232	-2.894054	26809.322389			

HLA A*2601	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.373336
	1.478828	-2.894508	23623.056137			
HLA A*1101	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.126076
	1.231508	-2.894568	13368.302996			
HLA B*4402	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-3.414859
	0.519628	-2.895231	2599.315379			
HLA A*8001	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.374440
	1.478828	-2.895612	23683.197678			
HLA A*0219	1:66-749		LENYIAQTR	0.964649	0.569583	-4.429956
	1.534232	-2.895724	26912.641179			
HLA B*1517	1:78-869		LSAATSSTP	0.733359	0.025119	-3.654873
	0.758478	-2.896395	4517.237932			
HLA B*0801	1:79-879		SAATSSTPR	0.650358	0.717768	-4.264541
	1.368126	-2.896415	18388.268201			
HLA A*1101	1:66-749		LENYIAQTR	0.964649	0.569583	-4.431124
	1.534232	-2.896892	26985.098964			
HLA A*0301	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.367291
	1.470113	-2.897178	23296.509566			
HLA B*0802	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.384604
	1.486927	-2.897678	24243.996468			
HLA A*6801	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.385114
	1.486927	-2.898187	24272.474322			
HLA A*0202	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.916803
	1.017829	-2.898974	8256.632453			
HLA A*3101	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.370625
	1.470113	-2.900512	23476.036513			
HLA A*3101	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-3.993993
	1.092768	-2.901225	9862.634356			
HLA B*5801	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.241217
	1.339576	-2.901641	17426.793775			
HLA B*4001	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.380967
	1.478828	-2.902139	24041.812693			

HLA B*3801	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.287180
	1.384894	-2.902287	19372.267930			
HLA A*0101	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.372732
	1.470113	-2.902619	23590.234844			
HLA A*0216	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.373000
	1.470113	-2.902887	23604.788074			
HLA B*5701	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.382560
	1.478828	-2.903732	24130.157696			
HLA A*3001	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.272717
	1.368668	-2.904049	18737.732614			
HLA B*0802	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.374436
	1.470113	-2.904323	23682.941433			
HLA A*8001	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.391991
	1.486927	-2.905064	24659.881932			
HLA B*1509	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.392151
	1.486927	-2.905224	24668.955292			
HLA A*2601	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.375770
	1.470113	-2.905657	23755.826703			
HLA B*2705	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.392733
	1.486927	-2.905807	24702.074670			
HLA B*5801	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.233906
	1.328019	-2.905886	17135.859575			
HLA A*0202	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.166332
	1.260066	-2.906266	14666.698231			
HLA B*1509	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.245996
	1.339576	-2.906420	17619.612152			
HLA B*5101	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.497180
	1.590000	-2.907180	31418.090471			
HLA A*3001	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.119916
	1.212549	-2.907367	13180.015794			
HLA B*1801	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.247077
	1.339576	-2.907501	17663.514024			

HLA A*2501	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.441819	
	1.534232	-2.907587	27657.878907			
HLA A*1101	1:12-20 9	VVLLCCSGV	1.181551	0.297277	-4.386470	
	1.478828	-2.907641	24348.359374			
HLA A*2403	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.442378	
	1.534232	-2.908146	27693.512845			
HLA A*2301	1:12-20 9	VVLLCCSGV	1.181551	0.297277	-4.387717	
	1.478828	-2.908889	24418.404275			
HLA B*4501	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.563198
	1.653995	-2.909203	36576.147916			
HLA B*3901	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.443720	
	1.534232	-2.909488	27779.191664			
HLA B*1503	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-3.866341
	0.956718	-2.909622	7350.903362			
HLA A*2403	1:12-20 9	VVLLCCSGV	1.181551	0.297277	-4.388784	
	1.478828	-2.909956	24478.451776			
HLA A*8001	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.380251
	1.470113	-2.910138	24002.176023			
HLA A*3101	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.156211
	1.245899	-2.910312	14328.831480			
HLA A*0203	1:46-54 9	SDPAYNINI	1.266370	0.129806	-4.307539	
	1.396176	-2.911363	20301.996778			
HLA A*2403	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.280109
	1.368668	-2.911440	19059.368947			
HLA A*3301	1:122-130	9	GTHPTTYK	0.923012	0.114876	-3.949348
	1.037888	-2.911460	8899.139579			
HLA B*5101	1:66-74 9	LENYIAQTR	0.964649	0.569583	-4.445733	
	1.534232	-2.911501	27908.282655			
HLA B*5401	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.565667
	1.653995	-2.911673	36784.704683			
HLA B*1801	1:4-12 9	KIFMLVTAV	1.048201	0.290033	-4.251212	
	1.338234	-2.912979	17832.498702			

HLA A*3002	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.282284
	1.368668	-2.913616	19155.087503			
HLA A*0211	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.503855
	1.590000	-2.913855	31904.700554			
HLA B*4002	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.592830
	1.678698	-2.914131	39158.826623			
HLA B*4403	1:48-569		PAYNINISL	1.435478	0.251657	-4.602434
	1.687135	-2.915299	40034.495916			
HLA B*1502	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.243522
	1.328019	-2.915503	17519.525384			
HLA A*0250	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.595299
	1.678698	-2.916601	39382.109793			
HLA A*2501	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.395581
	1.478828	-2.916753	24864.573030			
HLA A*0203	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.766647
	0.847335	-2.919312	5843.154447			
HLA A*2602	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.573547
	1.653995	-2.919553	37458.246776			
HLA A*0202	1:46-549		SDPAYNINI	1.266370	0.129806	-4.317439
	1.396176	-2.921264	20770.142890			
HLA B*7301	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.600367
	1.678698	-2.921668	39844.356551			
HLA A*0216	1:87-959		REAPYELNI	1.162222	0.222672	-4.306773
	1.384894	-2.921879	20266.223247			
HLA B*4801	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.401072
	1.478828	-2.922243	25180.929230			
HLA B*5701	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.392607
	1.470113	-2.922494	24694.859408			
HLA B*4402	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.410693
	1.486927	-2.923766	25744.999844			
HLA B*1503	1:37-459		TGQACQIQM	1.304282	-0.067488	-4.160571
	1.236794	-2.923778	14473.428472			

HLA B*5301	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.170702
	1.246912		-2.923791	14815.025335		
HLA B*0801	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-3.995934
	1.071973		-2.923961	9906.804828		
HLA A*6802	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-3.595229
	0.671022		-2.924207	3937.575916		
HLA A*0206	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.514411
	1.590000		-2.924411	32689.698041		
HLA B*3901	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.292631
	1.368126		-2.924505	19616.940380		
HLA B*1801	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.403677
	1.478828		-2.924849	25332.458002		
HLA A*6802	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.293726
	1.368668		-2.925058	19666.457241		
HLA B*0702	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.259901
	1.334657		-2.925244	18192.844045		
HLA B*0803	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.253277
	1.328019		-2.925258	17917.499392		
HLA A*0216	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.459734
	1.534232		-2.925502	28822.635795		
HLA B*1517	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.459802
	1.534232		-2.925570	28827.158040		
HLA A*0211	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-3.606408
	0.680076		-2.926331	4040.245820		
HLA A*0216	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.187285
	1.260066		-2.927219	15391.645908		
HLA A*2601	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.106538
	1.179033		-2.927505	12780.209207		
HLA A*0206	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-3.731955
	0.804086		-2.927869	5394.545621		
HLA B*2705	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.407068
	1.478828		-2.928239	25530.988981		

HLA A*2402	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.409666
	1.478828	-2.930838	25684.207424			
HLA A*6801	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.609657
	1.678698	-2.930958	40705.836275			
HLA B*0702	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.271044
	1.339576	-2.931468	18665.696670			
HLA B*5301	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.587271
	1.653995	-2.933276	38660.795710			
HLA A*3201	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.587830
	1.653995	-2.933835	38710.605617			
HLA A*0250	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.010378
	1.076055	-2.934324	10241.845990			
HLA B*1501	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.180866
	1.245899	-2.934968	15165.833043			
HLA A*2601	1:79-879		SAATSSTPR	0.650358	0.717768	-4.303340
	1.368126	-2.935214	20106.673458			
HLA B*4402	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.414783
	1.478828	-2.935955	25988.627655			
HLA B*3801	1:66-749		LENYIAQTR	0.964649	0.569583	-4.470823
	1.534232	-2.936591	29568.089438			
HLA A*0211	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.717632
	0.779687	-2.937945	5219.542157			
HLA B*0801	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-3.339581
	0.401614	-2.937967	2185.654326			
HLA A*2301	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.306658
	1.368668	-2.937989	20260.851696			
HLA A*6802	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.142147
	1.203934	-2.938213	13872.245238			
HLA A*3301	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.617114
	1.678698	-2.938416	41410.831114			
HLA B*4601	1:79-879		SAATSSTPR	0.650358	0.717768	-4.306693
	1.368126	-2.938567	20262.495897			

HLA B*4402	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.408722
	1.470113	-2.938609	25628.410735			
HLA A*6802	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.681333
	0.742712	-2.938620	4801.012828			
HLA A*0201	1:87-95 9	REAPYELNI	1.162222	0.222672	-4.324100	
	1.384894	-2.939206	21091.150675			
HLA A*0101	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.308286
	1.368668	-2.939618	20336.953272			
HLA A*0219	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.917094
	0.977336	-2.939758	8262.173077			
HLA B*4601	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.267821
	1.328019	-2.939801	18527.665894			
HLA B*0801	1:87-95 9	REAPYELNI	1.162222	0.222672	-4.324941	
	1.384894	-2.940047	21132.038339			
HLA B*5101	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.268873
	1.328019	-2.940854	18572.624566			
HLA B*1501	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.154007	
	1.212549	-2.941458	14256.304343			
HLA A*0211	1:46-54 9	SDPAYNINI	1.266370	0.129806	-4.337730	
	1.396176	-2.941554	21763.544953			
HLA A*0101	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.121265
	1.179033	-2.942232	13221.006998			
HLA A*0211	1:1-9 9	VRKIFMLV	0.881917	0.241018	-4.065234	
	1.122935	-2.942299	11620.746215			
HLA A*0202	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.155285	
	1.212549	-2.942736	14298.322155			
HLA A*0202	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.790189
	0.847335	-2.942854	6168.636872			
HLA A*0203	1:79-87 9	SAATSSTPR	0.650358	0.717768	-4.311004	
	1.368126	-2.942878	20464.646393			
HLA B*1503	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.961072
	1.017829	-2.943243	9142.646933			

HLA A*2902	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.189221
	1.245899	-2.943323	15460.411152			
HLA B*1502	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.597381
	1.653995	-2.943386	39571.327731			
HLA A*0203	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.156286
	1.212549	-2.943737	14331.312251			
HLA B*1801	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.414008
	1.470113	-2.943895	25942.272499			
HLA B*4403	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.598344
	1.653995	-2.944349	39659.196507			
HLA A*3101	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.314035
	1.368668	-2.945367	20607.963693			
HLA A*1101	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.021581
	1.075247	-2.946333	10509.464449			
HLA B*0702	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.274773
	1.328019	-2.946753	18826.640802			
HLA A*3301	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.427165
	1.478828	-2.948337	26740.229659			
HLA A*0201	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.344635
	1.396176	-2.948459	22112.343551			
HLA B*1502	1:77-85	9	FLSAATSST	0.627583	-0.297236	-3.279294
	0.330347	-2.948946	1902.364319			
HLA B*1502	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.539012
	1.590000	-2.949013	34594.922850			
HLA B*1501	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.021247
	1.071973	-2.949274	10501.394134			
HLA A*0250	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-3.970014
	1.019585	-2.950430	9332.845762			
HLA B*4501	1:48-56	9	PAYNINISL	1.435478	0.251657	-4.637637
	1.687135	-2.950502	43414.689404			
HLA A*3201	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.421261
	1.470113	-2.951148	26379.154839			

HLA A*6901	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-3.953864
	1.002409	-2.951455	8992.153848			
HLA B*2705	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-3.908030
	0.954978	-2.953052	8091.517454			
HLA B*5401	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.553770
	0.600517	-2.953253	3579.067818			
HLA B*2705	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.321744
	1.368126	-2.953618	20977.017516			
HLA A*0201	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.214121
	1.260066	-2.954055	16372.721757			
HLA B*4501	1:140-148	9	KPITYDTLW	1.293618	0.385080	-4.632942
	1.678698	-2.954244	42947.948862			
HLA B*0803	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.433363
	1.478828	-2.954535	27124.583253			
HLA A*2403	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-3.289932
	0.335272	-2.954660	1949.540043			
HLA B*5801	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.350992
	1.396176	-2.954817	22438.430684			
HLA A*3101	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.283633
	1.328019	-2.955613	19214.661793			
HLA A*2902	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.340577
	1.384894	-2.955683	21906.712699			
HLA A*3001	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.290627
	1.334657	-2.955971	19526.623901			
HLA B*1501	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.352207
	1.396176	-2.956031	22501.276862			
HLA A*6901	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.341216
	1.384894	-2.956322	21938.971933			
HLA B*1501	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-3.958774
	1.002409	-2.956366	9094.402103			
HLA B*2705	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.291059
	1.334657	-2.956403	19546.070763			

HLA A*3002	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.977833
	1.020870	-2.956963	9502.397084			
HLA B*3901	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.699678
	0.742712	-2.956965	5008.153658			
HLA B*1501	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.118802
	1.161468	-2.957334	13146.261741			
HLA A*2902	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.212439
	1.254764	-2.957675	16309.425005			
HLA A*2603	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.353866
	1.396176	-2.957690	22587.382158			
HLA A*2402	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.137255
	1.179033	-2.958222	13716.873390			
HLA A*0211	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-3.845520
	0.886699	-2.958821	7006.797677			
HLA A*2902	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.297431
	1.338234	-2.959198	19834.957307			
HLA B*7301	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.613886
	1.653995	-2.959891	41104.157826			
HLA B*0803	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.447103
	1.486927	-2.960176	27996.443367			
HLA B*0702	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.345091
	1.384894	-2.960197	22135.563047			
HLA B*1801	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.447791
	1.486927	-2.960865	28040.855649			
HLA A*0216	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.289163
	1.328019	-2.961144	19460.922911			
HLA B*2705	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.207368
	1.245899	-2.961470	16120.127091			
HLA B*4001	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.357745
	1.396176	-2.961569	22790.030140			
HLA B*3901	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.440562
	1.478828	-2.961734	27577.944698			

HLA B*5401	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.551742
	1.590000	-2.961742	35623.933889			
HLA A*3001	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.046682
	1.083538	-2.963145	11134.801600			
HLA A*1101	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.433464
	1.470113	-2.963351	27130.893849			
HLA A*3201	1:46-549		SDPAYNINI	1.266370	0.129806	-4.359606
	1.396176	-2.963430	22887.886526			
HLA A*0250	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.554329
	1.590000	-2.964329	35836.753475			
HLA B*5401	1:66-749		LENYIAQTR	0.964649	0.569583	-4.498733
	1.534232	-2.964501	31530.640691			
HLA A*2403	1:46-549		SDPAYNINI	1.266370	0.129806	-4.360689
	1.396176	-2.964513	22945.039213			
HLA A*0301	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.304534
	1.339576	-2.964957	20162.007093			
HLA A*0101	1:46-549		SDPAYNINI	1.266370	0.129806	-4.361650
	1.396176	-2.965474	22995.864640			
HLA B*1509	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.145037
	1.179033	-2.966004	13964.861227			
HLA B*4001	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.305913
	1.339576	-2.966337	20226.135432			
HLA A*2501	1:87-959		REAPYELNI	1.162222	0.222672	-4.351265
	1.384894	-2.966371	22452.516277			
HLA B*1509	1:87-959		REAPYELNI	1.162222	0.222672	-4.351533
	1.384894	-2.966639	22466.367628			
HLA B*1502	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-3.906799
	0.940065	-2.966734	8068.612248			
HLA A*0212	1:87-959		REAPYELNI	1.162222	0.222672	-4.351695
	1.384894	-2.966801	22474.755492			
HLA B*1509	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.294840
	1.328019	-2.966820	19716.952405			

HLA A*0101	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.295089
	1.328019	-2.967069	19728.262299			
HLA A*0201	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-3.969615
	1.002409	-2.967206	9324.266466			
HLA A*0212	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.171285
	1.203934	-2.967351	14834.915291			
HLA A*0202	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.501745
	1.534232	-2.967513	31750.080834			
HLA A*0250	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.438656
	1.470113	-2.968544	27457.213712			
HLA B*2705	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.200531
	1.231508	-2.969023	15868.338643			
HLA A*0202	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.559220
	1.590000	-2.969221	36242.678532			
HLA B*4402	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.216203
	1.246912	-2.969291	16451.387239			
HLA B*1502	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.448280
	1.478828	-2.969452	28072.426576			
HLA A*3201	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.559866
	1.590000	-2.969867	36296.637600			
HLA A*3101	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-3.990784
	1.020870	-2.969914	9790.019030			
HLA B*5801	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.338590
	1.368126	-2.970463	21806.679884			
HLA A*0201	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.017384
	1.046875	-2.970510	10408.410334			
HLA A*0211	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.225380
	1.254764	-2.970616	16802.720894			
HLA B*0801	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.366861
	1.396176	-2.970685	23273.457209			
HLA B*1517	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.231007
	1.260066	-2.970940	17021.844942			

HLA A*0301	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.367187
	1.396176		23290.964839			
HLA B*0801	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.048322
	1.076055		11176.927239			
HLA B*5101	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.442430
	1.470113		27696.809055			
HLA B*5101	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.312313
	1.339576		20526.405684			
HLA B*3901	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.368975
	1.396176		23387.049660			
HLA A*2603	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.626855
	1.653995		42350.145981			
HLA A*3001	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.233116
	1.260066		17104.739626			
HLA A*0203	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.258862
	1.285203		18149.393813			
HLA B*1503	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.219802
	1.245899		16588.302104			
HLA A*0301	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.358898
	1.384894		22850.646755			
HLA B*1501	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.342814
	1.368668		22019.828001			
HLA A*0212	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.302419
	1.328019		20064.078887			
HLA A*6901	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.343408
	1.368668		22049.987218			
HLA A*0206	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.509653
	1.534232		32333.536009			
HLA A*0101	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.230344
	1.254764		16995.896406			
HLA A*0206	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-3.975860
	1.000164		9459.313243			

HLA A*3001	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.260941
	1.285203	-2.975738	18236.496955			
HLA A*3201	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.230595
	1.254764	-2.975831	17005.737467			
HLA B*3501	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.314799
	1.338234	-2.976565	20644.228775			
HLA A*6802	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-3.833396
	0.856017	-2.977379	6813.907516			
HLA A*6802	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.305525
	1.328019	-2.977506	20208.088998			
HLA A*3001	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.181609
	1.203934	-2.977675	15191.781587			
HLA B*1517	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.448264
	1.470113	-2.978151	28071.363515			
HLA B*5101	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.374889
	1.396176	-2.978713	23707.681909			
HLA A*6801	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.158100
	1.179033	-2.979067	14391.291199			
HLA A*0301	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.348042
	1.368668	-2.979373	22286.482385			
HLA A*0203	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.559277
	0.579719	-2.979558	3624.742171			
HLA B*7301	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.513948
	1.534232	-2.979716	32654.877613			
HLA B*0802	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.458691
	1.478828	-2.979862	28753.487170			
HLA A*6802	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.227062
	1.246912	-2.980150	16867.932123			
HLA A*2301	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.514970
	1.534232	-2.980738	32731.814888			
HLA A*0216	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.376999
	1.396176	-2.980823	23823.135951			

HLA A*0212	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-3.998814
	1.017829	-2.980985	9972.730334			
HLA A*0101	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.241582
	1.260066	-2.981516	17441.412842			
HLA B*0802	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.350880
	1.368668	-2.982211	22432.604748			
HLA A*1101	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.469378
	1.486927	-2.982452	29469.877455			
HLA A*3001	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.219976
	1.236794	-2.983182	16594.944258			
HLA B*1517	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-3.960823
	0.977336	-2.983487	9137.405601			
HLA A*0201	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.162935
	1.179033	-2.983902	14552.412648			
HLA B*1517	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-3.997367
	1.013420	-2.983947	9939.551608			
HLA A*2601	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.352658
	1.368668	-2.983990	22524.661052			
HLA A*3101	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.369448
	1.384894	-2.984554	23412.494283			
HLA B*5701	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.369765
	1.384894	-2.984871	23429.599493			
HLA A*6901	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.232557
	1.246912	-2.985646	17082.730528			
HLA A*3002	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.231632
	1.245899	-2.985733	17046.357529			
HLA B*4002	1:131-139	9	AFDWDQAYR	0.906877	0.747118	-4.640036
	1.653995	-2.986041	43655.153793			
HLA A*0216	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-4.109061
	1.122935	-2.986126	12854.681186			
HLA A*2403	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.315196
	1.328019	-2.987176	20663.111831			

HLA B*3901	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.690158
	0.701666	-2.988492	4899.565095			
HLA A*2601	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.384719
	1.396176	-2.988544	24250.424030			
HLA B*1503	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.061160
	1.071973	-2.989187	11512.244635			
HLA B*1517	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.569079
	0.579719	-2.989360	3707.483031			
HLA A*0211	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.065723
	1.076055	-2.989668	11633.829901			
HLA B*4001	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.328024
	1.338234	-2.989790	21282.562343			
HLA A*2402	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.524074
	1.534232	-2.989842	33425.225108			
HLA B*5101	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.275402
	1.285203	-2.990199	18853.956410			
HLA A*2602	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.469042
	1.478828	-2.990214	29447.087957			
HLA A*0203	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.692338
	0.701666	-2.990672	4924.224608			
HLA A*0250	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-3.731358
	0.740601	-2.990757	5387.138003			
HLA B*1517	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.063251
	1.071973	-2.991278	11567.807460			
HLA A*0301	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.326217
	1.334657	-2.991561	21194.206443			
HLA A*0212	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.277244
	1.285203	-2.992041	18934.092519			
HLA A*0211	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.526438
	1.534232	-2.992206	33607.632744			
HLA B*4801	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.389437
	1.396176	-2.993261	24515.293821			

HLA A*2601	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.248226
	1.254764		17710.303578			
HLA B*3501	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.378449
	1.384894		23902.788096			
HLA B*4001	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.363168
	1.368668		23076.370915			
HLA B*1503	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.280280
	1.285203		19066.897396			
HLA B*4002	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.595826
	0.600517		3942.990305			
HLA B*5701	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.333623
	1.338234		21558.708334			
HLA B*1503	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.842860
	0.847335		6964.019207			
HLA A*0216	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.363872
	1.368126		23113.853506			
HLA B*3501	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.392202
	1.396176		24671.891506			
HLA B*1503	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.365794
	1.368668		23216.365650			
HLA A*2501	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.468199
	1.470113		29389.952790			
HLA A*6801	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-3.784654
	0.786460		6090.512219			
HLA A*0206	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.356371
	0.357949		2271.804193			
HLA A*3101	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.395064
	1.396176		24834.997425			
HLA B*1503	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-3.998166
	0.999064		9957.850869			
HLA A*2402	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.395790
	1.396176		24876.547711			

HLA A*0301	1:160-168	9	PIVQGELSK	0.947962	0.037882	-3.985695
	0.985844	-2.999850	9675.970854			
HLA A*3001	1:184-192	9	PVNYQNFVAV	0.967153	-0.114155	-3.853033
	0.852998	-3.000035	7129.075766			
HLA B*2705	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.204150
	1.203934	-3.000216	16001.093649			
HLA A*8001	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.260605
	1.260066	-3.000539	18222.394399			
HLA B*3501	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.369530
	1.368668	-3.000862	23416.927767			
HLA B*1503	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-3.854429
	0.853458	-3.000971	7152.021715			
HLA A*0101	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.369119
	1.368126	-3.000993	23394.768736			
HLA B*1502	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.339623
	1.338234	-3.001390	21858.649270			
HLA B*0803	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.386336
	1.384894	-3.001442	24340.852381			
HLA B*0802	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.386604
	1.384894	-3.001710	24355.868681			
HLA A*0202	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-3.672753
	0.671022	-3.001730	4707.090488			
HLA B*3901	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.336846
	1.334657	-3.002190	21719.320322			
HLA A*3201	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.074195
	1.071973	-3.002222	11863.011531			
HLA A*2501	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.398692
	1.396176	-3.002516	25043.309693			
HLA A*1101	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.371435
	1.368668	-3.002767	23519.893378			
HLA A*0212	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.399126
	1.396176	-3.002951	25068.386322			

HLA A*2403	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.164655
	1.161468	-3.003187	14610.155023			
HLA A*0101	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.388241
	1.384894	-3.003347	24447.880543			
HLA A*3002	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.537591
	1.534232	-3.003359	34481.879353			
HLA B*4601	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.399810
	1.396176	-3.003634	25107.882005			
HLA B*4601	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.388554
	1.384894	-3.003660	24465.477496			
HLA A*0219	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.265662
	1.260066	-3.005595	18435.780719			
HLA A*0219	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.390525
	1.384894	-3.005631	24576.776174			
HLA B*4801	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.374172
	1.368126	-3.006046	23668.596105			
HLA B*7301	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.596173
	1.590000	-3.006173	39461.445257			
HLA B*1503	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.607338
	0.600517	-3.006821	4048.910582			
HLA B*5101	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-3.961453
	0.954583	-3.006870	9150.663079			
HLA A*0202	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.262032
	1.254764	-3.007267	18282.331504			
HLA A*8001	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.403569
	1.396176	-3.007394	25326.154680			
HLA A*0101	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.345737
	1.338234	-3.007503	22168.519065			
HLA B*4402	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.347113
	1.339576	-3.007537	22238.909110			
HLA A*2501	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.377636
	1.368668	-3.008967	23858.088188			

HLA B*4601	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.377659
	1.368668	-3.008991	23859.378919			
HLA B*4001	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.294391
	1.285203	-3.009188	19696.589620			
HLA A*3101	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.240703
	1.231508	-3.009195	17406.159333			
HLA B*5701	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.246356
	1.236794	-3.009562	17634.202172			
HLA A*0101	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.349618
	1.339576	-3.010042	22367.530124			
HLA A*2601	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.394994
	1.384894	-3.010100	24830.967115			
HLA A*2601	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.256235
	1.245899	-3.010337	18039.952929			
HLA B*4402	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.339327
	1.328019	-3.011308	21843.754485			
HLA A*6901	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.345974
	1.334657	-3.011317	22180.635227			
HLA A*3001	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.030927
	1.019585	-3.011342	10738.084984			
HLA B*0802	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.379828
	1.368126	-3.011702	23978.814559			
HLA B*0803	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.381303
	1.368126	-3.013177	24060.418976			
HLA A*2603	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.603489
	1.590000	-3.013490	40131.859519			
HLA B*5301	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.603525
	1.590000	-3.013525	40135.116285			
HLA A*0201	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.381733
	1.368126	-3.013607	24084.250819			
HLA A*6901	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.794212
	0.779687	-3.014524	6226.034513			

HLA B*3801	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.501634
	1.486927	-3.014708	31742.008932			
HLA B*5401	1:89-97	9	APYELNITS	1.361001	-1.037258	-3.338491
	0.323743	-3.014749	2180.174802			
HLA A*1101	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.410933
	1.396176	-3.014757	25759.210080			
HLA B*7301	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.218956
	1.203934	-3.015022	16556.026828			
HLA B*1503	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.247242
	1.231508	-3.015733	17670.204326			
HLA B*0801	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.384407
	1.368668	-3.015739	24232.981755			
HLA A*3101	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.270852
	1.254764	-3.016087	18657.418200			
HLA B*2705	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.412657
	1.396176	-3.016481	25861.699612			
HLA A*0201	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.385347
	1.368668	-3.016678	24285.477632			
HLA B*4001	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.344961
	1.328019	-3.016942	22128.977725			
HLA A*0212	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.178756
	1.161468	-3.017289	15092.334880			
HLA A*2601	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.355633
	1.338234	-3.017399	22679.460144			
HLA B*5801	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.352242
	1.334657	-3.017586	22503.102878			
HLA A*6802	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.403454
	1.384894	-3.018560	25319.441997			
HLA B*5701	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.414835
	1.396176	-3.018659	25991.720942			
HLA A*2601	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.359380
	1.339576	-3.019804	22876.002803			

HLA B*1509	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.389775
	1.368668	-3.021107	24534.399265			
HLA B*4501	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.611358
	1.590000	-3.021358	40865.583897			
HLA B*4002	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.611379
	1.590000	-3.021379	40867.573650			
HLA A*2403	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.268098
	1.245899	-3.022199	18539.497119			
HLA A*8001	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.360668
	1.338234	-3.022434	22943.922069			
HLA A*0219	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.350772
	1.328019	-3.022752	22427.022979			
HLA B*3801	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.493005
	1.470113	-3.022892	31117.503789			
HLA B*1503	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-3.943907
	0.920569	-3.023338	8788.335161			
HLA B*5701	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.391772
	1.368126	-3.023646	24647.478180			
HLA A*0212	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.392369
	1.368668	-3.023701	24681.369852			
HLA A*0201	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.309482
	1.285203	-3.024278	20393.030962			
HLA A*3002	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.147583
	1.122935	-3.024648	14046.996237			
HLA A*0206	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.100730
	1.076055	-3.024676	12610.434078			
HLA B*1503	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-3.773809
	0.748062	-3.025747	5940.302976			
HLA B*1502	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.394540
	1.368126	-3.026414	24805.054419			
HLA A*0201	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.149421
	1.122935	-3.026486	14106.548403			

HLA A*0219	1:46-54		SDPAYNINI	1.266370	0.129806	-4.422694
	1.396176	-3.026518	26466.350699			
HLA A*0202	1:79-87		SAATSSTPR	0.650358	0.717768	-4.395950
	1.368126	-3.027824	24885.700791			
HLA B*4001	1:79-87		SAATSSTPR	0.650358	0.717768	-4.395978
	1.368126	-3.027852	24887.316390			
HLA A*3001	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.259377
	1.231508	-3.027869	18170.909336			
HLA B*1502	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.103935
	1.076055	-3.027880	12703.831762			
HLA A*0219	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.313638
	1.285203	-3.028435	20589.131035			
HLA A*8001	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.151968
	1.122935	-3.029032	14189.516753			
HLA B*1502	1:66-74		LENYIAQTR	0.964649	0.569583	-4.563550
	1.534232	-3.029318	36605.840898			
HLA A*6801	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.369088
	1.339576	-3.029512	23393.123474			
HLA A*3002	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.357573
	1.328019	-3.029554	22781.031634			
HLA A*3002	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-3.839049
	0.808230	-3.030819	6903.178377			
HLA A*2403	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.369645
	1.338234	-3.031411	23423.136056			
HLA A*2602	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.052876
	1.020870	-3.032006	11294.726673			
HLA B*4601	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.292145
	1.260066	-3.032079	19594.984703			
HLA A*3001	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.279267
	1.246912	-3.032356	19022.491622			
HLA A*0301	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.287493
	1.254764	-3.032729	19386.211588			

HLA A*1101	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.367493
	1.334657	-3.032836	23307.350800			
HLA B*3901	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.194357
	1.161468	-3.032889	15644.331627			
HLA B*5301	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.269712
	1.236794	-3.032918	18608.529102			
HLA A*2501	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.245545
	1.212549	-3.032996	17601.320185			
HLA B*1509	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.401149
	1.368126	-3.033023	25185.425090			
HLA B*5101	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.417950
	1.384894	-3.033057	26178.843250			
HLA B*5301	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.567401
	1.534232	-3.033169	36931.861115			
HLA A*0301	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.361654
	1.328019	-3.033635	22996.113452			
HLA A*3201	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.054534
	1.020870	-3.033665	11337.948032			
HLA A*3002	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.246682
	1.212549	-3.034133	17647.467631			
HLA A*6901	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.294267
	1.260066	-3.034200	19690.942942			
HLA B*3501	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.196641
	1.161468	-3.035173	15726.812642			
HLA B*1509	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.514216
	1.478828	-3.035388	32675.022981			
HLA A*8001	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.404124
	1.368126	-3.035998	25358.510089			
HLA B*0801	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.370768
	1.334657	-3.036112	23483.784959			
HLA A*2301	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.432296
	1.396176	-3.036121	27058.044590			

HLA B*4001	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.371055
	1.334657	-3.036398	23499.289526			
HLA A*2902	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.433262
	1.396176	-3.037086	27118.274124			
HLA B*7301	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.268873
	1.231508	-3.037365	18572.624566			
HLA B*5701	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.376952
	1.339576	-3.037376	23820.558480			
HLA B*1503	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.178047
	1.138874	-3.039173	15067.697359			
HLA A*8001	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.379055
	1.339576	-3.039478	23936.173740			
HLA B*0803	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.377819
	1.338234	-3.039585	23868.157742			
HLA B*0801	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.244483
	1.203934	-3.040550	17558.332786			
HLA A*6901	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.272172
	1.231508	-3.040664	18714.229745			
HLA A*2603	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.519669
	1.478828	-3.040841	33087.888714			
HLA B*1517	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.437118
	1.396176	-3.040942	27360.091872			
HLA B*3501	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.273217
	1.231508	-3.041709	18759.336668			
HLA A*2601	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.376419
	1.334657	-3.041762	23791.323720			
HLA B*0801	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.254436
	1.212549	-3.041886	17965.350495			
HLA B*5101	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.744036
	0.701666	-3.042370	5546.715900			
HLA B*1501	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-3.999354
	0.956718	-3.042636	9985.146872			

HLA A*0216	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.785490
	0.742712	-3.042778	6102.253364			
HLA A*2603	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.381242
	1.338234	-3.043008	24057.034944			
HLA A*2902	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.411311
	1.368126	-3.043185	25781.655923			
HLA B*2705	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.371351
	1.328019	-3.043331	23515.313184			
HLA B*1501	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.303540
	1.260066	-3.043474	20115.921448			
HLA B*4402	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.411917
	1.368126	-3.043791	25817.665830			
HLA A*6901	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.280647
	1.236794	-3.043853	19082.995557			
HLA A*0201	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.371985
	1.328019	-3.043966	23549.686396			
HLA A*1101	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.428878
	1.384894	-3.043984	26845.896250			
HLA A*0203	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.787440
	0.742712	-3.044728	6129.715360			
HLA A*0206	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.257558
	1.212549	-3.045009	18094.982193			
HLA A*6901	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.058782
	1.013420	-3.045362	11449.389525			
HLA A*0211	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.625194
	0.579719	-3.045475	4218.851819			
HLA B*4402	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.384289
	1.338234	-3.046056	24226.427755			
HLA B*4001	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-3.798149
	0.751912	-3.046237	6282.742504			
HLA B*4801	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.385929
	1.339576	-3.046353	24318.082171			

HLA A*2603	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.516664
	1.470113	-3.046551	32859.735633			
HLA B*2705	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.386178
	1.339576	-3.046602	24332.031332			
HLA A*6802	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-3.941848
	0.895143	-3.046706	8746.785219			
HLA A*2902	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.085031
	1.037888	-3.047142	12162.721918			
HLA A*0219	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.047627
	1.000164	-3.047463	11159.043644			
HLA A*0206	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.415866
	1.368126	-3.047740	26053.523114			
HLA A*3201	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.534760
	1.486927	-3.047833	34257.825950			
HLA B*1503	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.085740
	1.037888	-3.047852	12182.609451			
HLA B*4601	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.383225
	1.334657	-3.048569	24167.129228			
HLA B*4601	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.228025
	1.179033	-3.048992	16905.387641			
HLA B*1509	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.262074
	1.212549	-3.049525	18284.111888			
HLA A*6802	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.334852
	1.285203	-3.049648	21619.792314			
HLA A*2601	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.377821
	1.328019	-3.049802	23868.286867			
HLA A*6802	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.286602
	1.236794	-3.049809	19346.503830			
HLA B*4801	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.418566
	1.368668	-3.049898	26215.975215			
HLA B*4403	1:99-107	9	TYQSAIPPR	0.787540	0.802460	-4.639953
	1.590000	-3.049954	43646.888642			

HLA A*2603	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-3.747095
	0.696230	-3.050865	5585.923087			
HLA A*0203	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.419825
	1.368668	-3.051157	26292.104015			
HLA A*0101	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.386251
	1.334657	-3.051595	24336.112316			
HLA B*0702	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-3.886955
	0.835252	-3.051703	7708.237633			
HLA B*2705	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.055009
	1.002409	-3.052601	11350.344887			
HLA B*5301	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.522994
	1.470113	-3.052881	33342.148211			
HLA A*0202	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.009918
	0.956718	-3.053199	10230.991925			
HLA A*0216	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.053731
	1.000164	-3.053567	11316.990158			
HLA B*5401	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.176576
	1.122935	-3.053641	15016.755545			
HLA B*3501	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.796627
	0.742712	-3.053914	6260.756231			
HLA B*5301	1:12-209	9	VVLLCCSGV	1.181551	0.297277	-4.533110
	1.478828	-3.054282	34127.970295			
HLA B*0802	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.450507
	1.396176	-3.054332	28216.767935			
HLA A*6802	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.138063
	1.083538	-3.054525	13742.424285			
HLA A*0250	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.588838
	1.534232	-3.054606	38800.551168			
HLA A*3001	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.193793
	1.138874	-3.054920	15624.032624			
HLA A*2902	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.382957
	1.328019	-3.054938	24152.229294			

HLA A*1101	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.394916
	1.339576	-3.055340	24826.534529			
HLA B*0702	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.424127
	1.368668	-3.055459	26553.834784			
HLA A*6801	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.041438
	0.985844	-3.055594	11001.158774			
HLA A*0216	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.424289
	1.368668	-3.055621	26563.748712			
HLA B*0802	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.395346
	1.339576	-3.055770	24851.125210			
HLA A*0301	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.301933
	1.245899	-3.056034	20041.622764			
HLA A*2501	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.424334
	1.368126	-3.056208	26566.479284			
HLA A*3101	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.070351
	1.013420	-3.056931	11758.480278			
HLA A*2603	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.545039
	1.486927	-3.058112	35078.320795			
HLA B*5101	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.393112
	1.334657	-3.058455	24723.599356			
HLA B*3501	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-3.923466
	0.864656	-3.058810	8384.286143			
HLA A*2602	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.529098
	1.470113	-3.058985	33814.077189			
HLA B*5101	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.427682
	1.368668	-3.059014	26772.074175			
HLA A*0211	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.053604
	0.994492	-3.059112	11313.684563			
HLA B*4801	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.296163
	1.236794	-3.059369	19777.097206			
HLA B*5301	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.135484
	1.076055	-3.059429	13661.035450			

HLA A*2902	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-4.182530
	1.122935	-3.059595	15224.032626			
HLA A*0201	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.395125
	1.334657	-3.060469	24838.490890			
HLA A*6802	1:82-90	9	TSSTPREAP	0.792178	0.117162	-3.970536
	0.909340	-3.061196	9344.061201			
HLA B*0702	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.457553
	1.396176	-3.061378	28678.297912			
HLA A*0250	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.223209
	1.161468	-3.061741	16718.938080			
HLA A*0212	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.061912
	1.000164	-3.061748	11532.191485			
HLA A*0212	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.429999
	1.368126	-3.061872	26915.262006			
HLA B*1501	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.265842
	1.203934	-3.061909	18443.461954			
HLA A*0212	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.322211
	1.260066	-3.062145	20999.612861			
HLA A*0201	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.317019
	1.254764	-3.062255	20750.039439			
HLA B*1501	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.396951
	1.334657	-3.062294	24943.118833			
HLA A*2403	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.430628
	1.368126	-3.062502	26954.313409			
HLA A*0212	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.805433
	0.742712	-3.062720	6388.996706			
HLA B*0801	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.322839
	1.260066	-3.062772	21029.967468			
HLA A*3001	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.155703
	1.092768	-3.062936	14312.097503			
HLA B*3501	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.391049
	1.328019	-3.063029	24606.443618			

HLA B*0802	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.392527
	1.328019	-3.064507	24690.317546			
HLA A*0219	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.433713
	1.368668	-3.065045	27146.456475			
HLA B*5701	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.311307
	1.245899	-3.065409	20478.933157			
HLA B*1509	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.403917
	1.338234	-3.065683	25346.440530			
HLA B*0803	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.461916
	1.396176	-3.065741	28967.856843			
HLA B*1503	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.400600
	1.334657	-3.065943	25153.562678			
HLA B*3801	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.544945
	1.478828	-3.066116	35070.730824			
HLA A*0211	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.270111
	1.203934	-3.066178	18625.650887			
HLA A*0201	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.270281
	1.203934	-3.066347	18632.907215			
HLA A*3101	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.326447
	1.260066	-3.066381	21205.445936			
HLA B*5301	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.401243
	1.334657	-3.066587	25190.875694			
HLA A*0301	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.326699
	1.260066	-3.066633	21217.724435			
HLA B*5801	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.352031
	1.285203	-3.066828	22492.149008			
HLA B*5701	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.401838
	1.334657	-3.067181	25225.378101			
HLA B*1801	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.402037
	1.334657	-3.067381	25236.980421			
HLA B*0802	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.405677
	1.338234	-3.067443	25449.352844			

HLA A*3001	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.143232
	1.075733	-3.067499	13906.960460			
HLA A*3101	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.229143
	1.161468	-3.067676	16948.976926			
HLA B*5101	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.406224
	1.338234	-3.067990	25481.452086			
HLA A*3101	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.304926
	1.236794	-3.068132	20180.230720			
HLA A*0212	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.403102
	1.334657	-3.068445	25298.904025			
HLA B*4801	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.403252
	1.334657	-3.068596	25307.664855			
HLA A*2902	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.305936
	1.236794	-3.069143	20227.229673			
HLA B*1801	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.437526
	1.368126	-3.069400	27385.858619			
HLA B*0803	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.438478
	1.368668	-3.069810	27445.926955			
HLA A*0250	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.849650
	0.779687	-3.069963	7073.754316			
HLA B*4601	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.355543
	1.285203	-3.070340	22674.798276			
HLA B*0803	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.325543
	1.254764	-3.070779	21161.325042			
HLA A*3001	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-4.193868
	1.122935	-3.070933	15626.737635			
HLA A*0216	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.924016
	0.852998	-3.071018	8394.906650			
HLA B*5401	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.541789
	1.470113	-3.071677	34816.848496			
HLA A*0211	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.250970
	1.179033	-3.071937	17822.564870			

HLA B*5301	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.251337
	1.179033	-3.072304	17837.612443			
HLA B*5301	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.457525
	1.384894	-3.072631	28676.436215			
HLA A*0202	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.358508
	1.285203	-3.073305	22830.135135			
HLA A*6802	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.166182
	1.092768	-3.073414	14661.621016			
HLA B*4601	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.328428
	1.254764	-3.073664	21302.375004			
HLA B*7301	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.077390
	1.002409	-3.074982	11950.614910			
HLA B*4801	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.403494
	1.328019	-3.075475	25321.770686			
HLA A*3301	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.097229
	1.020870	-3.076360	12509.193299			
HLA B*3901	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-3.929908
	0.853458	-3.076451	8509.584979			
HLA B*1501	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.361661
	1.285203	-3.076458	22996.486674			
HLA B*4001	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.323785
	1.246912	-3.076874	21075.866710			
HLA B*4801	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.290500
	1.212549	-3.077951	19520.920343			
HLA A*0219	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.446931
	1.368126	-3.078805	27985.389141			
HLA B*7301	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.566017
	1.486927	-3.079091	36814.367812			
HLA A*0301	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.310992
	1.231508	-3.079484	20464.092843			
HLA B*1801	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.448322
	1.368668	-3.079654	28075.160346			

HLA A*8001	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.408315
	1.328019	-3.080296	25604.436049			
HLA A*2603	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.614534
	1.534232	-3.080302	41165.577495			
HLA B*1509	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.476540
	1.396176	-3.080364	29959.844865			
HLA A*6802	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.293158
	1.212549	-3.080608	19640.726896			
HLA B*1509	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.317649
	1.236794	-3.080855	20780.145709			
HLA B*1503	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.340948
	1.260066	-3.080882	21925.445740			
HLA B*7301	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.559751
	1.478828	-3.080923	36287.017196			
HLA B*4002	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-3.600600
	0.519628	-3.080972	3986.574300			
HLA A*0250	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.466463
	1.384894	-3.081569	29272.689022			
HLA B*4002	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.560442
	1.478828	-3.081614	36344.777888			
HLA B*0802	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.417081
	1.334657	-3.082425	26126.494543			
HLA B*1503	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.070408
	0.987852	-3.082556	11760.007067			
HLA A*0301	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.367850
	1.285203	-3.082647	23326.524390			
HLA B*5301	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.479124
	1.396176	-3.082948	30138.663785			
HLA B*5401	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.314498
	1.231508	-3.082990	20629.938300			
HLA B*3801	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.451839
	1.368668	-3.083171	28303.453132			

HLA B*1801	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.288294
	1.203934	-3.084360	19422.007740			
HLA A*2602	1:66-74	9	LENYIAQTR	0.964649	0.569583	-4.618690
	1.534232	-3.084458	41561.427074			
HLA A*8001	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.330446
	1.245899	-3.084548	21401.599534			
HLA B*3801	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.480980
	1.396176	-3.084804	30267.746422			
HLA A*2601	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.370122
	1.285203	-3.084919	23448.873650			
HLA B*4402	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.419875
	1.334657	-3.085218	26295.091170			
HLA A*2403	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.419971
	1.334657	-3.085314	26300.924211			
HLA A*3301	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.454086
	1.368668	-3.085417	28450.213645			
HLA A*0206	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.224623
	1.138874	-3.085750	16773.476297			
HLA B*1517	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.426174
	1.339576	-3.086597	26679.252063			
HLA B*0801	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.323419
	1.236794	-3.086625	21058.087390			
HLA A*3101	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.372009
	1.285203	-3.086805	23550.960442			
HLA B*4801	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.249347
	1.161468	-3.087879	17756.064338			
HLA A*0216	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.335253
	1.246912	-3.088342	21639.801844			
HLA A*3002	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.161154
	1.071973	-3.089181	14492.859816			
HLA A*1101	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.343975
	1.254764	-3.089210	22078.754372			

HLA B*5101	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.457737
	1.368126		28690.401885			
HLA A*1101	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.326711
	1.236794		21218.298370			
HLA A*6802	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.157588
	1.067238		14374.328750			
HLA A*2501	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.430588
	1.339576		26951.834586			
HLA A*3002	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.252530
	1.161468		17886.701615			
HLA A*3002	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.351242
	1.260066		22451.301653			
HLA A*0216	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.138373
	1.046875		13752.241329			
HLA A*2902	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.351892
	1.260066		22484.971032			
HLA A*0206	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.338817
	1.246912		21818.126144			
HLA A*0201	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-3.944917
	0.852998		8808.802843			
HLA A*1101	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.352090
	1.260066		22495.191215			
HLA B*1502	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-3.869024
	0.776623		7396.458507			
HLA B*4801	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.271481
	1.179033		18684.488282			
HLA A*3002	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.092042
	0.999064		12360.659431			
HLA A*6802	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-3.365139
	0.271476		2318.137405			
HLA A*0212	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.348516
	1.254764		22310.850312			

HLA A*3002	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.479516
	1.384894	-3.094622	30165.904910			
HLA A*0202	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.166967
	1.071973	-3.094994	14688.137091			
HLA A*0203	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.429813
	1.334657	-3.095156	26903.761386			
HLA A*6901	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.178977
	1.083538	-3.095439	15100.011731			
HLA A*3001	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.081619
	0.985844	-3.095775	12067.556064			
HLA A*2403	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.381146
	1.285203	-3.095942	24051.699555			
HLA A*0212	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.308674
	1.212549	-3.096124	20355.114786			
HLA B*4402	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.328468
	1.231508	-3.096960	21304.334233			
HLA B*5801	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.344106
	1.246912	-3.097195	22085.444227			
HLA B*4801	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.343131
	1.245899	-3.097233	22035.915727			
HLA A*0101	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.382868
	1.285203	-3.097665	24147.264690			
HLA A*0211	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.329274
	1.231508	-3.097766	21343.903085			
HLA A*0216	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.432682
	1.334657	-3.098025	27082.061730			
HLA B*5401	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.436568
	1.338234	-3.098334	27325.478260			
HLA A*2501	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.426597
	1.328019	-3.098577	26705.244439			
HLA B*3901	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.467442
	1.368668	-3.098774	29338.800520			

HLA B*4402	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.456938
	0.357949	-3.098989	2863.770775			
HLA B*1801	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.427142
	1.328019	-3.099122	26738.783081			
HLA A*6801	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.578167
	1.478828	-3.099338	37858.772963			
HLA B*1509	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.346425
	1.246912	-3.099513	22203.686194			
HLA A*2902	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.278765
	1.179033	-3.099732	19000.481716			
HLA A*0219	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.354561
	1.254764	-3.099797	22623.580922			
HLA A*2602	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.027515
	0.927533	-3.099982	10654.066042			
HLA B*2705	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.469146
	1.368668	-3.100478	29454.098233			
HLA A*6802	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.435167
	1.334657	-3.100511	27237.514773			
HLA A*3301	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.439394
	1.338234	-3.101161	27503.895061			
HLA B*4001	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.313835
	1.212549	-3.101286	20598.489494			
HLA B*0801	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.100782
	0.999064	-3.101718	12611.935031			
HLA B*4501	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-3.165597
	0.063696	-3.101902	1464.189923			
HLA B*5701	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.362124
	1.260066	-3.102058	23021.008202			
HLA B*3901	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.349639
	1.246912	-3.102728	22368.619203			
HLA A*0206	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.116345
	1.013420	-3.102925	13072.080495			

HLA A*3301	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.573583
	1.470113	-3.103470	37461.286573			
HLA B*1801	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.499696
	1.396176	-3.103520	31600.654991			
HLA A*2902	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.150840
	1.046875	-3.103965	14152.717970			
HLA B*4601	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.349959
	1.245899	-3.104060	22385.082857			
HLA B*5401	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.432228
	1.328019	-3.104209	27053.799873			
HLA A*6901	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-4.227146
	1.122935	-3.104211	16871.217574			
HLA B*0803	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.444020
	1.339576	-3.104444	27798.434466			
HLA A*3001	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.099038
	0.994492	-3.104546	12561.410460			
HLA B*1509	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.104771
	1.000164	-3.104607	12728.321908			
HLA B*1501	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.188361
	1.083538	-3.104823	15429.829523			
HLA A*8001	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.359855
	1.254764	-3.105091	22901.015309			
HLA B*4402	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.341916
	1.236794	-3.105123	21974.369305			
HLA A*6901	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.317747
	1.212549	-3.105198	20784.867814			
HLA A*3101	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.284786
	1.179033	-3.105754	19265.768691			
HLA B*5801	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.083109
	0.977336	-3.105773	12109.017272			
HLA A*3001	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.152931
	1.046875	-3.106056	14221.024805			

HLA B*0801	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.352806
	1.245899	-3.106908	22532.339284			
HLA A*0203	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.354340
	1.246912	-3.107429	22612.079087			
HLA A*6802	1:77-85	9	FLSAATSST	0.627583	-0.297236	-3.437889
	0.330347	-3.107541	2740.871206			
HLA A*0206	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.954940
	0.847335	-3.107605	9014.461595			
HLA B*5801	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.362655
	1.254764	-3.107891	23049.171704			
HLA A*3301	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.362874
	1.254764	-3.108110	23060.771114			
HLA A*3201	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.369354
	1.260066	-3.109288	23407.428471			
HLA B*2705	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.348060
	1.236794	-3.111266	22287.446945			
HLA A*3301	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.598212
	1.486927	-3.111286	39647.183423			
HLA A*2601	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.371503
	1.260066	-3.111437	23523.583628			
HLA B*4002	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.343874
	1.231508	-3.112365	22073.618894			
HLA A*2403	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.359321
	1.246912	-3.112410	22872.909096			
HLA B*4403	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.470565
	0.357949	-3.112616	2955.052941			
HLA A*2902	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.447357
	1.334657	-3.112700	28012.805573			
HLA B*4601	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.350231
	1.236794	-3.113437	22399.134960			
HLA B*4001	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.359343
	1.245899	-3.113444	22874.022783			

HLA A*2402	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.053764
	0.940065	-3.113699	11317.847322			
HLA B*7301	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.452530
	1.338234	-3.114296	28348.505803			
HLA B*4002	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.602070
	1.486927	-3.115144	40000.939748			
HLA B*4501	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-3.868253
	0.751912	-3.116341	7383.345546			
HLA B*4402	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.330352
	1.212549	-3.117803	21396.968824			
HLA A*3001	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.117068
	0.999064	-3.118005	13093.879952			
HLA A*2402	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.446062
	1.328019	-3.118043	27929.427962			
HLA A*0250	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.514228
	1.396176	-3.118052	32675.906835			
HLA A*0211	1:33-41	9	KGTDGQAC	1.197565	-0.058691	-4.256940
	1.138874	-3.118067	18069.254944			
HLA B*2705	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.372974
	1.254764	-3.118210	23603.383424			
HLA A*0301	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.355405
	1.236794	-3.118611	22667.562010			
HLA A*3101	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.331393
	1.212549	-3.118844	21448.309887			
HLA B*0702	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.202641
	1.083538	-3.119103	15945.615866			
HLA B*4501	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.457699
	1.338234	-3.119465	28687.918603			
HLA A*1101	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.298528
	1.179033	-3.119496	19885.132060			
HLA A*0301	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.366553
	1.246912	-3.119642	23256.969258			

HLA A*0101	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.356469
	1.236794		22723.181070			
HLA B*5101	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.242719
	1.122935		17487.141040			
HLA B*1517	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.366708
	1.246912		23265.274704			
HLA B*5801	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.351425
	1.231508		22460.777458			
HLA B*1501	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.139581
	1.019585		13790.535169			
HLA A*2602	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-3.887491
	0.767355		7717.751261			
HLA B*1501	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.196096
	1.075733		15707.086391			
HLA B*1509	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.455197
	1.334657		28523.107482			
HLA A*0216	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.375474
	1.254764		23739.639156			
HLA B*5401	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.488912
	1.368126		30825.629075			
HLA A*3301	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.045658
	0.924700		11108.568764			
HLA A*0201	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.358097
	1.236794		22808.531376			
HLA B*0801	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.368527
	1.246912		23362.896564			
HLA B*5301	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-3.956979
	0.835252		9056.891100			
HLA B*4403	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.406931
	1.285203		25522.979288			
HLA A*0216	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.283215
	1.161468		19196.167743			

HLA B*0702	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.301310
	1.179033	-3.122278	20012.911266			
HLA B*4501	1:12-209		VVLLCCSGV	1.181551	0.297277	-4.601640
	1.478828	-3.122812	39961.358025			
HLA A*3002	1:72-809		QTRDKFLSA	1.401913	-0.147149	-4.378169
	1.254764	-3.123405	23887.404988			
HLA A*6801	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.461677
	1.338234	-3.123443	28951.876537			
HLA A*0216	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.355823
	1.231508	-3.124315	22689.400485			
HLA A*3001	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.127025
	1.002409	-3.124617	13397.552647			
HLA A*8001	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.459553
	1.334657	-3.124896	28810.631896			
HLA A*0212	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.247838
	1.122935	-3.124903	17694.501853			
HLA A*0219	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.361699
	1.236794	-3.124905	22998.477295			
HLA B*3501	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.372013
	1.246912	-3.125102	23551.215260			
HLA A*0219	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.459898
	1.334657	-3.125242	28833.552770			
HLA B*4002	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.595635
	1.470113	-3.125522	39412.588138			
HLA A*6901	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.329741
	1.203934	-3.125808	21366.893620			
HLA A*6901	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.218754
	1.092768	-3.125986	16548.325921			
HLA A*2602	1:72-809		QTRDKFLSA	1.401913	-0.147149	-4.380843
	1.254764	-3.126079	24034.920314			
HLA B*0801	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.411757
	1.285203	-3.126554	25808.169968			

HLA B*4403	1:46-54 9	SDPAYNINI	1.266370	0.129806	-4.522923
	1.396176	-3.126747	33336.737330		
HLA A*3002	1:79-87 9	SAATSSTPR	0.650358	0.717768	-4.494988
	1.368126	-3.126862	31259.909506		
HLA A*2902	1:215-223 9	QVLVPRSAI	0.852479	0.308989	-4.288351
	1.161468	-3.126883	19424.529606		
HLA B*1501	1:142-150 9	ITYDTLWQA	1.233555	-0.212685	-4.148030
	1.020870	-3.127160	14061.442272		
HLA A*2602	1:102-110 9	SAIPPRGTQ	1.076283	0.007255	-4.210996
	1.083538	-3.127458	16255.340321		
HLA B*5801	1:215-223 9	QVLVPRSAI	0.852479	0.308989	-4.288964
	1.161468	-3.127496	19451.976046		
HLA A*0203	1:189-197 9	NFAVTNDGV	0.789539	0.210625	-4.128097
	1.000164	-3.127933	13430.643996		
HLA B*1502	1:37-45 9	TGQACQIQM	1.304282	-0.067488	-4.364810
	1.236794	-3.128016	23163.799703		
HLA B*0702	1:37-45 9	TGQACQIQM	1.304282	-0.067488	-4.364927
	1.236794	-3.128133	23170.066230		
HLA B*4601	1:33-41 9	KGTDTGQAC	1.197565	-0.058691	-4.267095
	1.138874	-3.128221	18496.719887		
HLA A*0201	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-3.992964
	0.864656	-3.128308	9839.292199		
HLA B*4402	1:108-116 9	GTQAVVLKV	1.154603	0.091296	-4.374403
	1.245899	-3.128504	23681.147792		
HLA B*5701	1:35-43 9	TDTGQACQI	1.187370	0.059542	-4.375516
	1.246912	-3.128605	23741.950987		
HLA A*2601	1:35-43 9	TDTGQACQI	1.187370	0.059542	-4.375690
	1.246912	-3.128779	23751.457547		
HLA B*4501	1:72-80 9	QTRDKFLSA	1.401913	-0.147149	-4.383996
	1.254764	-3.129232	24210.050507		
HLA A*0101	1:132-140 9	FDWDQAYRK	1.061895	0.169613	-4.361095
	1.231508	-3.129587	22966.523776		

HLA A*3201	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.497887
	1.368126	-3.129761	31469.292632			
HLA B*3901	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.415180
	1.285203	-3.129977	26012.399176			
HLA A*0219	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.342624
	1.212549	-3.130074	22010.181004			
HLA B*3801	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.459113
	1.328019	-3.131094	28781.500379			
HLA A*0206	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.203088
	1.071973	-3.131115	15962.014456			
HLA B*1801	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.362702
	1.231508	-3.131194	23051.665708			
HLA B*4801	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.416588
	1.285203	-3.131384	26096.829695			
HLA B*2705	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.203360
	1.071973	-3.131388	15972.034516			
HLA A*0219	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.292911
	1.161468	-3.131443	19629.573378			
HLA B*1801	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.368470
	1.236794	-3.131676	23359.863385			
HLA A*2402	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.470558
	1.338234	-3.132324	29550.019472			
HLA A*6802	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.208651
	1.076055	-3.132597	16167.813106			
HLA A*0206	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.501686
	1.368668	-3.133018	31745.787014			
HLA A*1101	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.461324
	1.328019	-3.133305	28928.392100			
HLA A*0202	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-3.813552
	0.680076	-3.133476	6509.572741			
HLA A*0203	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-3.821978
	0.688457	-3.133521	6637.090471			

HLA B*4001	1:72-80 9	QTRDKFLSA	1.401913	-0.147149	-4.388631
	1.254764	-3.133867	24469.845618		
HLA A*1101	1:150-158 9	ADTDPLPVV	1.257750	0.027453	-4.419203
	1.285203	-3.133999	26254.438119		
HLA B*0702	1:108-116 9	GTQAVVLKV	1.154603	0.091296	-4.380070
	1.245899	-3.134171	23992.179723		
HLA B*1801	1:72-80 9	QTRDKFLSA	1.401913	-0.147149	-4.388946
	1.254764	-3.134182	24487.590856		
HLA A*2301	1:166-174 9	LSKQTGQQV	1.247032	0.080987	-4.462325
	1.328019	-3.134306	28995.137724		
HLA B*5801	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.347306
	1.212549	-3.134757	22248.776721		
HLA B*3501	1:102-110 9	SAIPPRGTQ	1.076283	0.007255	-4.219055
	1.083538	-3.135517	16559.789039		
HLA B*3901	1:108-116 9	GTQAVVLKV	1.154603	0.091296	-4.381576
	1.245899	-3.135677	24075.522761		
HLA B*1517	1:81-89 9	ATSSTPREA	0.999596	-0.112897	-4.023188
	0.886699	-3.136489	10548.425335		
HLA A*3201	1:3-11 9	IKIFMLVTA	1.316552	-0.112618	-4.341183
	1.203934	-3.137250	21937.310372		
HLA A*2601	1:37-45 9	TGQACQIQM	1.304282	-0.067488	-4.374304
	1.236794	-3.137510	23675.767683		
HLA B*4001	1:9-17 9	VTAVVLLCC	1.208701	0.051365	-4.397705
	1.260066	-3.137639	24986.472047		
HLA A*0101	1:35-43 9	TDTGQACQI	1.187370	0.059542	-4.384656
	1.246912	-3.137744	24246.882102		
HLA B*5701	1:150-158 9	ADTDPLPVV	1.257750	0.027453	-4.423455
	1.285203	-3.138252	26512.781707		
HLA A*2603	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.350990
	1.212549	-3.138441	22438.309295		
HLA A*2501	1:212-220 9	GPTQVLVPR	0.849469	0.485188	-4.473177
	1.334657	-3.138521	29728.804646		

HLA B*4801	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.141517
	1.002409	-3.139109	13852.147132			
HLA B*1501	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.386108
	1.246912	-3.139196	24328.082645			
HLA A*0201	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.370707
	1.231508	-3.139199	23480.482030			
HLA A*2403	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.376193
	1.236794	-3.139399	23778.970920			
HLA A*2902	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.425941
	1.285203	-3.140738	26664.967040			
HLA B*4601	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.372246
	1.231508	-3.140738	23563.832175			
HLA A*2902	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.080924
	0.940065	-3.140859	12048.247422			
HLA B*0803	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.372537
	1.231508	-3.141029	23579.644715			
HLA A*2501	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.372923
	1.231508	-3.141414	23600.574374			
HLA A*3002	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-3.988843
	0.847335	-3.141508	9746.369259			
HLA B*4801	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.373089
	1.231508	-3.141581	23609.641146			
HLA B*0801	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.217420
	1.075733	-3.141686	16497.553989			
HLA B*1502	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.537922
	1.396176	-3.141747	34508.191971			
HLA B*3901	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.470170
	1.328019	-3.142151	29523.653957			
HLA A*2501	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.388074
	1.245899	-3.142176	24438.491863			
HLA A*3002	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.379010
	1.236794	-3.142216	23933.713517			

HLA A*0219	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.373820
	1.231508	-3.142312	23649.397224			
HLA B*7301	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.612478
	1.470113	-3.142365	40971.174417			
HLA A*0301	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.321445
	1.179033	-3.142413	20962.610082			
HLA B*0702	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.427659
	1.285203	-3.142455	26770.625874			
HLA A*0202	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.029202
	0.886699	-3.142503	10695.530112			
HLA A*3301	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.374029
	1.231508	-3.142521	23660.786681			
HLA A*0211	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.510830
	1.368126	-3.142704	32421.290221			
HLA B*0803	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.477888
	1.334657	-3.143232	30053.023060			
HLA A*0201	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.390259
	1.246912	-3.143348	24561.756552			
HLA B*1517	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.478076
	1.334657	-3.143420	30066.032557			
HLA A*0219	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.348154
	1.203934	-3.144221	22292.270372			
HLA B*5701	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.399143
	1.254764	-3.144379	25069.335660			
HLA B*5101	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.391758
	1.246912	-3.144847	24646.678153			
HLA A*2403	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.399772
	1.254764	-3.145008	25105.708805			
HLA A*2501	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.430642
	1.285203	-3.145439	26955.188342			
HLA A*0206	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-3.954606
	0.809025	-3.145582	9007.539307			

HLA A*0201	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.358887	
	1.212549	-3.146337	22850.028666			
HLA A*3001	1:21-29 9	ATAAPKTYC	0.926919	0.086501	-4.159777	
	1.013420	-3.146357	14446.987374			
HLA B*1801	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.167592
	1.020870	-3.146722	14709.288984			
HLA B*3801	1:79-87 9	SAATSSTPR	0.650358	0.717768	-4.515026	
	1.368126	-3.146900	32736.064975			
HLA A*2501	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.308486
	1.161468	-3.147018	20346.307179			
HLA B*4403	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.633962
	1.486927	-3.147036	43048.904472			
HLA A*0212	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.378940
	1.231508	-3.147432	23929.829470			
HLA B*1517	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.432896
	1.285203	-3.147692	27095.397509			
HLA A*0211	1:35-43 9	TDTGQACQI	1.187370	0.059542	-4.395001	
	1.246912	-3.148089	24831.370116			
HLA B*1503	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-3.934734
	0.786460	-3.148275	8604.670051			
HLA B*4601	1:35-43 9	TDTGQACQI	1.187370	0.059542	-4.395558	
	1.246912	-3.148646	24863.227921			
HLA A*2501	1:9-17 9	VTAVVLLCC	1.208701	0.051365	-4.408872	
	1.260066	-3.148806	25637.285671			
HLA A*0219	1:35-43 9	TDTGQACQI	1.187370	0.059542	-4.396020	
	1.246912	-3.149109	24889.739985			
HLA A*8001	1:2-10 9	RIKIFMLVT	1.197683	-0.125710	-4.221108	
	1.071973	-3.149136	16638.273147			
HLA A*0202	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-3.897528
	0.748062	-3.149466	7898.193643			
HLA A*2601	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.362108	
	1.212549	-3.149559	23020.136431			

HLA B*5101	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.409713
	1.260066	-3.149647	25686.986549			
HLA A*2601	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.381524
	1.231508	-3.150016	24072.657522			
HLA A*2602	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.488299
	1.338234	-3.150065	30782.134584			
HLA A*2603	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.478419
	1.328019	-3.150400	30089.789408			
HLA B*3501	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.410575
	1.260066	-3.150509	25738.036906			
HLA B*5101	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.312043
	1.161468	-3.150575	20513.639414			
HLA B*1801	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.079082
	0.927533	-3.151549	11997.254766			
HLA A*0201	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.227635
	1.075733	-3.151902	16890.212714			
HLA A*2301	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.389002
	1.236794	-3.152209	24490.770466			
HLA A*3101	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.399429
	1.246912	-3.152518	25085.887046			
HLA B*4402	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.356528
	1.203934	-3.152594	22726.254525			
HLA B*3501	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.437839
	1.285203	-3.152636	27405.570252			
HLA A*0219	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.155158
	1.002409	-3.152750	14294.145739			
HLA B*5801	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.356751
	1.203934	-3.152817	22737.937446			
HLA B*3901	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.228890
	1.076055	-3.152835	16939.077073			
HLA A*0206	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.733205
	0.579719	-3.153486	5410.093816			

HLA A*0301	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.366079
	1.212549	-3.153529	23231.567979		
HLA B*0802	1:72-80 9	QTRDKFLSA	1.401913	-0.147149	-4.408477
	1.254764	-3.153713	25613.995517		
HLA A*3101	1:56-64 9	LPSYYPDQK	0.981412	0.093835	-4.229085
	1.075247	-3.153837	16946.684779		
HLA A*3002	1:46-54 9	SDPAYNINI	1.266370	0.129806	-4.550367
	1.396176	-3.154192	35511.370006		
HLA B*4001	1:37-45 9	TGQACQIQM	1.304282	-0.067488	-4.391025
	1.236794	-3.154232	24605.112473		
HLA B*1503	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.174006
	1.019585	-3.154421	14928.142581		
HLA B*0801	1:112-120 9	VVLKVYQNA	1.087232	-0.069403	-4.172737
	1.017829	-3.154908	14884.596037		
HLA B*1502	1:218-226 9	VPRSAIDSM	0.858689	0.068844	-4.082893
	0.927533	-3.155360	12102.991995		
HLA B*1502	1:126-134 9	TTYKAFDW	1.082766	0.285902	-4.524044
	1.368668	-3.155376	33422.874443		
HLA A*0301	1:215-223 9	QVLVPRSAI	0.852479	0.308989	-4.317002
	1.161468	-3.155535	20749.253666		
HLA A*2301	1:132-140 9	FDWDQAYRK	1.061895	0.169613	-4.387076
	1.231508	-3.155568	24382.367358		
HLA B*2705	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.368130
	1.212549	-3.155580	23341.546301		
HLA A*2601	1:215-223 9	QVLVPRSAI	0.852479	0.308989	-4.317282
	1.161468	-3.155814	20762.615855		
HLA B*4801	1:3-11 9	IKIFMLVTA	1.316552	-0.112618	-4.359798
	1.203934	-3.155865	22898.042095		
HLA A*0201	1:215-223 9	QVLVPRSAI	0.852479	0.308989	-4.317360
	1.161468	-3.155892	20766.322860		
HLA B*5401	1:150-158 9	ADTDPLPVV	1.257750	0.027453	-4.441278
	1.285203	-3.156075	27623.486315		

HLA B*3801	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.494960
	1.338234	-3.156726	31257.880220			
HLA A*0206	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.491466
	1.334657	-3.156809	31007.434747			
HLA B*5401	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.553034
	1.396176	-3.156858	35730.088582			
HLA A*2402	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.369640
	1.212549	-3.157091	23422.882624			
HLA B*4402	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.336155
	1.179033	-3.157123	21684.803039			
HLA B*5701	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.336827
	1.179033	-3.157795	21718.380349			
HLA A*3101	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.361770
	1.203934	-3.157836	23002.210174			
HLA A*3101	1:8-16	9	LVTAVLLC	0.979168	0.067707	-4.204732
	1.046875	-3.157858	16022.575964			
HLA A*2402	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.526781
	1.368126	-3.158655	33634.188010			
HLA B*5801	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-3.938470
	0.779687	-3.158783	8679.004288			
HLA B*4501	1:190-198	9	FAVTNDGVI	1.178752	0.308175	-4.645850
	1.486927	-3.158924	44243.604141			
HLA B*1501	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.298124
	1.138874	-3.159251	19866.637532			
HLA A*0203	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.396215
	1.236794	-3.159422	24900.918506			
HLA B*1801	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.372100
	1.212549	-3.159551	23555.929882			
HLA B*1501	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.007319
	0.847335	-3.159984	10169.959220			
HLA B*4403	1:12-20	9	VVLLCCSGV	1.181551	0.297277	-4.638830
	1.478828	-3.160002	43534.166782			

HLA B*1501	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.087723
	0.927533	-3.160190	12238.361777			
HLA B*4402	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.420281
	1.260066	-3.160215	26319.712550			
HLA A*0301	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.364171
	1.203934	-3.160237	23129.739472			
HLA A*8001	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.445526
	1.285203	-3.160323	27894.999514			
HLA A*6802	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.162846
	1.002409	-3.160437	14549.421332			
HLA A*2301	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.498975
	1.338234	-3.160741	31548.215046			
HLA B*4402	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.415552
	1.254764	-3.160788	26034.643104			
HLA B*5101	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.393011
	1.231508	-3.161503	24717.848692			
HLA A*6802	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.048524
	0.886699	-3.161826	11182.128519			
HLA B*4801	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.408841
	1.246912	-3.161930	25635.482701			
HLA B*4601	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.365919
	1.203934	-3.161985	23223.023297			
HLA B*3901	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-3.755069
	0.592876	-3.162193	5689.434523			
HLA A*2602	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.531057
	1.368126	-3.162931	33966.985841			
HLA B*2705	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.448376
	1.285203	-3.163173	28078.653884			
HLA A*2602	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.375878
	1.212549	-3.163329	23761.739192			
HLA A*8001	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.184456
	1.020870	-3.163587	15291.718115			

HLA A*0216	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.376191
	1.212549		23778.842278			
HLA B*3801	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.498364
	1.334657		31503.871429			
HLA B*4501	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.559974
	1.396176		36305.671320			
HLA A*2403	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.164194
	1.000164		14594.671527			
HLA B*0802	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.400896
	1.236794		25170.714350			
HLA A*2403	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.303216
	1.138874		20100.909216			
HLA B*1801	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.424506
	1.260066		26576.973041			
HLA B*4001	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.343718
	1.179033		22065.738856			
HLA A*0250	1:149-157	9	QADTDPLPV	0.679726	0.062986	-3.907621
	0.742712		8083.904325			
HLA A*2403	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.344254
	1.179033		22092.972738			
HLA A*0301	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.186153
	1.020870		15351.563448			
HLA A*0211	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.867064
	0.701666		7363.161985			
HLA A*2403	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.377958
	1.212549		23875.777279			
HLA A*3101	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.249060
	1.083538		17744.349087			
HLA A*2902	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-3.973769
	0.808230		9413.877998			
HLA A*0101	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.288494
	1.122935		19430.940821			

HLA B*0802	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.411616
	1.245899	-3.165718	25799.794167			
HLA B*5101	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.344985
	1.179033	-3.165952	22130.174911			
HLA A*3201	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.494144
	1.328019	-3.166125	31199.256983			
HLA B*5101	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.412742
	1.245899	-3.166843	25866.736824			
HLA B*5101	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.421717
	1.254764	-3.166953	26406.854783			
HLA B*0702	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.427276
	1.260066	-3.167209	26747.029622			
HLA B*2705	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.427553
	1.260066	-3.167487	26764.109492			
HLA B*5101	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.371616
	1.203934	-3.167683	23529.692900			
HLA B*1801	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.453038
	1.285203	-3.167834	28381.651416			
HLA A*6802	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-3.870908
	0.702905	-3.168003	7428.619470			
HLA A*2403	1:49-57	9	AYNINISLP	0.584960	0.117828	-3.871030
	0.702788	-3.168243	7430.709540			
HLA A*0216	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.372608
	1.203934	-3.168674	23583.471924			
HLA B*4801	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.423648
	1.254764	-3.168884	26524.545675			
HLA B*5401	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.096590
	0.927533	-3.169057	12490.799684			
HLA A*0211	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.537779
	1.368668	-3.169111	34496.806035			
HLA B*3501	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.373096
	1.203934	-3.169163	23610.024326			

HLA A*6802	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.400748
	1.231508	-3.169239	25162.137053			
HLA B*4501	1:29-379		CEELKGTDT	0.714161	-0.468986	-3.415531
	0.245175	-3.170356	2603.340227			
HLA B*0802	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.401997
	1.231508	-3.170489	25234.659530			
HLA A*2602	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.455735
	1.285203	-3.170532	28558.465648			
HLA A*0301	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.243226
	1.071973	-3.171254	17507.587339			
HLA B*7301	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-3.919510
	0.748062	-3.171448	8308.250053			
HLA B*0803	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.332965
	1.161468	-3.171497	21526.076592			
HLA A*3201	1:26-349		KTYCEELKG	0.984658	-0.550231	-3.605971
	0.434427	-3.171544	4036.182411			
HLA B*1503	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.126241
	0.954583	-3.171658	13373.366427			
HLA A*2902	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.375702
	1.203934	-3.171768	23752.100020			
HLA A*2902	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.144374
	0.972498	-3.171876	13943.572835			
HLA B*4001	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.376019
	1.203934	-3.172086	23769.453347			
HLA A*2403	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.432635
	1.260066	-3.172569	27079.131670			
HLA B*7301	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.557888
	1.384894	-3.172994	36131.677810			
HLA B*4002	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.512715
	1.339576	-3.173138	32562.263082			
HLA B*7301	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.513659
	1.339576	-3.174083	32633.155751			

HLA A*0101	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.386686
	1.212549	-3.174137	24360.480807		
HLA A*3101	1:112-120 9	VVLKVYQNA	1.087232	-0.069403	-4.192172
	1.017829	-3.174343	15565.819585		
HLA B*5401	1:87-95 9	REAPYELNI	1.162222	0.222672	-4.559260
	1.384894	-3.174366	36246.011856		
HLA A*3002	1:150-158 9	ADTDPLPVV	1.257750	0.027453	-4.459644
	1.285203	-3.174441	28816.711168		
HLA B*0803	1:2-10 9	RIKIFMLVT	1.197683	-0.125710	-4.246466
	1.071973	-3.174494	17638.686499		
HLA B*0802	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.387168
	1.212549	-3.174618	24387.512231		
HLA A*0212	1:172-180 9	QQVSIAPNA	1.175074	-0.172665	-4.177116
	1.002409	-3.174708	15035.452140		
HLA A*6901	1:154-162 9	PLPVVFPVIV	1.026322	-0.131179	-4.069891
	0.895143	-3.174748	11746.018920		
HLA A*0101	1:3-11 9	IKIFMLVTA	1.316552	-0.112618	-4.378763
	1.203934	-3.174830	23920.122110		
HLA A*2603	1:87-95 9	REAPYELNI	1.162222	0.222672	-4.560026
	1.384894	-3.175132	36309.992589		
HLA A*2301	1:79-87 9	SAATSSTPR	0.650358	0.717768	-4.543634
	1.368126	-3.175508	34965.021805		
HLA B*4501	1:147-155 9	LWQADTDPL	0.954861	0.515252	-4.645672
	1.470113	-3.175559	44225.417052		
HLA A*0212	1:96-104 9	TSATYQSAI	0.928477	0.250556	-4.354658
	1.179033	-3.175625	22628.599513		
HLA A*3301	1:62-70 9	DQKSLENYI	1.150042	0.062507	-4.388413
	1.212549	-3.175863	24457.537454		
HLA A*0212	1:37-45 9	TGQACQIQM	1.304282	-0.067488	-4.412908
	1.236794	-3.176115	25876.674201		
HLA A*6802	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.195818
	1.019585	-3.176234	15697.062706		

HLA A*2402	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.436389
	1.260066	-3.176323	27314.245656			
HLA B*5301	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.338061
	1.161468	-3.176593	21780.152395			
HLA A*8001	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.413533
	1.236794	-3.176740	25913.938331			
HLA A*0101	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.223669
	1.046875	-3.176794	16736.675212			
HLA A*0202	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.338277
	1.161468	-3.176809	21790.995289			
HLA B*4501	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.517129
	1.339576	-3.177553	32894.952461			
HLA A*0212	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.424618
	1.246912	-3.177707	26583.875304			
HLA B*3501	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.433001
	1.254764	-3.178237	27101.994551			
HLA A*0203	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.410122
	1.231508	-3.178614	25711.177625			
HLA B*1502	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.043276
	0.864656	-3.178620	11047.798127			
HLA A*0219	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.357874
	1.179033	-3.178841	22796.812183			
HLA B*4801	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.301853
	1.122935	-3.178918	20037.936722			
HLA A*0216	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.416242
	1.236794	-3.179449	26076.084344			
HLA B*1517	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.383418
	1.203934	-3.179484	24177.852409			
HLA A*2902	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.426512
	1.246912	-3.179600	26700.043939			
HLA A*2301	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.383545
	1.203934	-3.179611	24184.916614			

HLA B*1503	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.255406
	1.075247	-3.180159	18005.535070			
HLA A*0202	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.548913
	1.368668	-3.180245	35392.651211			
HLA B*3501	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.392912
	1.212549	-3.180363	24712.233055			
HLA B*4601	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.393189
	1.212549	-3.180640	24728.013564			
HLA A*0202	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.417539
	1.236794	-3.180745	26154.070666			
HLA B*1501	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.412695
	1.231508	-3.181187	25863.938252			
HLA B*0802	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.360296
	1.179033	-3.181264	22924.318845			
HLA B*4801	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.441499
	1.260066	-3.181433	27637.537247			
HLA A*3101	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.304407
	1.122935	-3.181472	20156.117946			
HLA B*4001	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.304513
	1.122935	-3.181577	20161.025449			
HLA B*0802	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.466841
	1.285203	-3.181638	29298.196411			
HLA A*8001	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.428657
	1.246912	-3.181745	26832.247788			
HLA A*1101	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.428786
	1.246912	-3.181875	26840.232748			
HLA B*5301	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.550675
	1.368126	-3.182549	35536.545674			
HLA B*2705	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.344151
	1.161468	-3.182683	22087.714460			
HLA A*0211	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.185373
	1.002409	-3.182964	15324.015509			

HLA A*2601	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.387012
	1.203934	-3.183079	24378.806159			
HLA B*1503	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-3.775975
	0.592876	-3.183099	5970.006737			
HLA B*1502	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.395673
	1.212549	-3.183123	24869.819652			
HLA B*5401	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.202773
	1.019585	-3.183188	15950.447383			
HLA A*0250	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.551350
	1.368126	-3.183223	35591.763927			
HLA A*0211	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.183460
	1.000164	-3.183296	15256.682277			
HLA A*2602	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.522954
	1.339576	-3.183377	33339.081937			
HLA B*5801	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.323113
	1.138874	-3.184240	21043.282747			
HLA A*0301	1:8-16	9	LTVAVLLC	0.979168	0.067707	-4.231580
	1.046875	-3.184705	17044.328834			
HLA B*3801	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.524319
	1.339576	-3.184742	33444.036383			
HLA A*2602	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.445000
	1.260066	-3.184934	27861.216404			
HLA A*8001	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.364100
	1.179033	-3.185068	23125.985897			
HLA B*1502	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.570272
	1.384894	-3.185378	37176.822197			
HLA A*0216	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.050230
	0.864656	-3.185574	11226.133579			
HLA A*6801	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.656108
	1.470113	-3.185995	45301.058461			
HLA B*5301	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.417542
	1.231508	-3.186034	26154.212157			

HLA B*5701	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.417575
	1.231508	-3.186066	26156.193112			
HLA A*6802	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.185349
	0.999064	-3.186285	15323.186520			
HLA B*7301	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.555132
	1.368668	-3.186464	35903.119370			
HLA B*3901	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.417979
	1.231508	-3.186471	26180.542801			
HLA B*5701	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.390551
	1.203934	-3.186617	24578.238751			
HLA A*2402	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.111430
	0.924700	-3.186730	12924.971403			
HLA A*0206	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.181336
	0.994492	-3.186844	15182.251018			
HLA B*5401	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.555623
	1.368668	-3.186955	35943.736794			
HLA B*5401	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.186331
	0.999064	-3.187268	15357.876565			
HLA B*4403	1:147-155	9	LWQADTDPL	0.954861	0.515252	-4.657574
	1.470113	-3.187461	45454.242865			
HLA B*1503	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.434599
	1.246912	-3.187687	27201.878937			
HLA A*0206	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.424917
	1.236794	-3.188123	26602.146189			
HLA B*5301	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.527935
	1.339576	-3.188358	33723.647771			
HLA A*1101	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.349851
	1.161468	-3.188383	22379.512912			
HLA A*2402	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.434432
	1.245899	-3.188534	27191.432644			
HLA B*0802	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.435539
	1.246912	-3.188627	27260.806332			

HLA A*0201	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.261165
	1.071973	-3.189192	18245.871820			
HLA B*4601	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.350790
	1.161468	-3.189323	22427.993622			
HLA A*0250	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.449520
	1.260066	-3.189454	28152.727891			
HLA B*5801	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.203337
	1.013420	-3.189917	15971.170470			
HLA B*3801	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.426770
	1.236794	-3.189977	26715.937538			
HLA B*0803	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.436150
	1.245899	-3.190251	27299.177576			
HLA B*0702	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.421787
	1.231508	-3.190279	26411.140875			
HLA A*2301	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.525033
	1.334657	-3.190376	33499.083909			
HLA A*2602	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.587170
	1.396176	-3.190994	38651.803280			
HLA A*0203	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.267104
	1.076055	-3.191050	18497.120152			
HLA B*5701	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.275379
	1.083538	-3.191841	18852.936459			
HLA B*0702	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.395966
	1.203934	-3.192033	24886.643211			
HLA B*3501	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.285209
	1.092768	-3.192442	19284.538450			
HLA A*6802	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.268718
	1.075733	-3.192985	18565.994345			
HLA B*4001	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.424618
	1.231508	-3.193110	26583.875304			
HLA A*6802	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-3.881871
	0.688457	-3.193414	7618.523460			

HLA A*2403	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.211348
	1.017829	-3.193520	16268.536613			
HLA B*0802	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.454518
	1.260066	-3.194452	28478.547645			
HLA A*0202	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.896212
	0.701666	-3.194546	7874.301975			
HLA A*0211	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.529365
	1.334657	-3.194709	33834.937688			
HLA A*0250	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.208449
	1.013420	-3.195029	16160.292773			
HLA A*3301	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.003457
	0.808230	-3.195227	10079.910085			
HLA A*6901	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.082052
	0.886699	-3.195353	12079.574327			
HLA B*5701	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.407921
	1.212549	-3.195371	25581.175738			
HLA A*2301	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.441619
	1.245899	-3.195721	27645.163616			
HLA A*0212	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.334847
	1.138874	-3.195973	21619.558393			
HLA B*0801	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.427797
	1.231508	-3.196289	26779.171979			
HLA A*2403	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.400242
	1.203934	-3.196309	25132.887326			
HLA B*1801	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.442547
	1.245899	-3.196649	27704.301902			
HLA B*4601	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.217636
	1.020870	-3.196766	16505.767027			
HLA A*0216	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.199474
	1.002409	-3.197066	15829.754948			
HLA A*8001	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.428650
	1.231508	-3.197142	26831.812313			

HLA A*6802	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.154157
	0.956718	-3.197439	14261.241199			
HLA A*3001	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.273163
	1.075247	-3.197916	18757.002636			
HLA A*0211	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.410524
	1.212549	-3.197974	25734.973810			
HLA A*2902	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.410531
	1.212549	-3.197981	25735.391484			
HLA A*0201	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.217922
	1.019585	-3.198338	16516.664536			
HLA B*3901	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.402364
	1.203934	-3.198430	25255.965126			
HLA A*3001	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.275706
	1.076055	-3.199651	18867.118720			
HLA B*1501	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.120790
	0.920569	-3.200221	13206.567004			
HLA A*2902	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.283868
	1.083538	-3.200330	19225.059524			
HLA B*0803	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.485665
	1.285203	-3.200462	30596.021678			
HLA B*3501	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.220356
	1.019585	-3.200772	16609.494476			
HLA B*3501	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.199963
	0.999064	-3.200899	15847.577516			
HLA A*0219	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.221080
	1.019585	-3.201496	16637.193048			
HLA A*2402	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.010040
	0.808230	-3.201810	10233.870453			
HLA A*3001	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.010153
	0.808230	-3.201923	10236.528275			
HLA B*1509	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.324958
	1.122935	-3.202023	21132.838608			

HLA B*7301	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.598215
	1.396176	-3.202039	39647.397910			
HLA A*2602	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.531125
	1.328019	-3.203106	33972.315230			
HLA A*2602	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.175979
	0.972498	-3.203481	14996.135014			
HLA B*0702	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.279249
	1.075733	-3.203515	19021.668363			
HLA B*2705	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.160623
	0.956718	-3.203905	14475.151167			
HLA B*1509	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.489243
	1.285203	-3.204040	30849.151661			
HLA B*2705	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.383133
	1.179033	-3.204101	24162.030848			
HLA B*2705	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.451576
	1.246912	-3.204665	28286.309050			
HLA B*1503	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.199272
	0.994492	-3.204780	15822.391861			
HLA A*2403	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.436650
	1.231508	-3.205142	27330.652724			
HLA A*6801	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-3.786660
	0.581216	-3.205444	6118.715762			
HLA A*3001	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.272952
	1.067238	-3.205714	18747.872262			
HLA A*2603	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.545722
	1.339576	-3.206146	35133.587306			
HLA A*8001	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.418902
	1.212549	-3.206353	26236.264111			
HLA A*8001	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.410719
	1.203934	-3.206785	25746.531944			
HLA A*0301	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.282225
	1.075247	-3.206978	19152.497005			

HLA A*0219	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.330409
	1.122935	-3.207473	21399.747130			
HLA B*1509	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.439039
	1.231508	-3.207531	27481.436489			
HLA A*0202	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.454945
	1.246912	-3.208034	28506.601426			
HLA B*0702	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.420713
	1.212549	-3.208164	26345.924752			
HLA B*3501	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.347633
	1.138874	-3.208759	22265.513528			
HLA A*0202	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-3.985840
	0.776623	-3.209218	9679.216846			
HLA B*0702	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.456162
	1.246912	-3.209251	28586.598155			
HLA B*1501	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.333132
	1.122935	-3.210197	21534.346392			
HLA A*0250	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.414598
	1.203934	-3.210664	25977.522976			
HLA B*0803	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.138247
	0.927533	-3.210714	13748.224418			
HLA A*3101	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.135874
	0.924700	-3.211174	13673.309139			
HLA B*3901	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.278490
	1.067238	-3.211252	18988.459033			
HLA A*2602	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.596340
	1.384894	-3.211446	39476.605393			
HLA A*2501	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.458472
	1.246912	-3.211560	28739.024363			
HLA B*1501	1:148-156	9	WQADTDPLP	0.614046	0.092801	-3.918607
	0.706847	-3.211760	8291.008430			
HLA B*1501	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.230224
	1.017829	-3.212395	16991.207811			

HLA B*1801	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.391874
	1.179033	-3.212841	24653.212473			
HLA A*0101	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.233805
	1.020870	-3.212935	17131.873806			
HLA A*2403	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.336600
	1.122935	-3.213664	21706.986418			
HLA A*0211	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.450582
	1.236794	-3.213789	28221.653145			
HLA A*0216	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.393138
	1.179033	-3.214105	24725.070671			
HLA B*5101	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.427160
	1.212549	-3.214611	26739.940337			
HLA B*1801	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.068265
	0.853458	-3.214807	11702.128222			
HLA B*3501	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.460847
	1.245899	-3.214949	28896.640162			
HLA B*1503	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.307868
	1.092768	-3.215100	20317.379020			
HLA A*3201	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.462041
	1.246912	-3.215129	28976.163817			
HLA B*5801	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.307945
	1.092768	-3.215178	20321.006531			
HLA B*7301	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.136019
	0.920569	-3.215450	13677.896115			
HLA B*0803	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.452274
	1.236794	-3.215480	28331.794243			
HLA A*0250	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.584520
	1.368668	-3.215851	38416.654467			
HLA B*4002	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.420145
	1.203934	-3.216211	26311.455415			
HLA A*6901	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-3.864668
	0.648272	-3.216395	7322.643312			

HLA B*4001	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.377896
	1.161468	-3.216429	23872.419217			
HLA B*5401	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.471601
	1.254764	-3.216837	29621.083660			
HLA A*0219	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.021510
	0.804086	-3.217424	10507.758936			
HLA A*2902	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.310217
	1.092768	-3.217450	20427.591638			
HLA A*2403	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.293188
	1.075733	-3.217455	19642.108248			
HLA B*4501	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.421606
	1.203934	-3.217673	26400.141303			
HLA A*0206	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.449412
	1.231508	-3.217904	28145.722818			
HLA A*0101	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.380690
	1.161468	-3.219222	24026.470093			
HLA B*4501	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.174072
	0.954256	-3.219816	14930.404020			
HLA A*6901	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.240066
	1.019585	-3.220482	17380.659209			
HLA B*5301	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.558868
	1.338234	-3.220634	36213.280130			
HLA A*3002	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-3.988392
	0.767355	-3.221037	9736.250974			
HLA B*5301	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.922822
	0.701666	-3.221157	8371.867242			
HLA B*5801	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-4.344181
	1.122935	-3.221246	22089.267912			
HLA A*2501	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.458141
	1.236794	-3.221347	28717.110756			
HLA A*6801	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.481607
	1.260066	-3.221541	30311.497968			

HLA B*1509	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.467908
	1.245899	-3.222009	29370.243849			
HLA B*3901	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.482270
	1.260066	-3.222204	30357.776140			
HLA A*0216	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.298543
	1.076055	-3.222488	19885.777528			
HLA B*7301	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.243438
	1.020870	-3.222568	17516.113684			
HLA B*1503	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.236100
	1.013420	-3.222680	17222.663389			
HLA A*0211	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.031707
	0.809025	-3.222682	10757.388808			
HLA A*2601	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.269792
	1.046875	-3.222917	18611.952199			
HLA B*3901	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.435522
	1.212549	-3.222973	27259.774006			
HLA B*5101	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.459828
	1.236794	-3.223034	28828.873560			
HLA B*4002	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.469641
	1.245899	-3.223743	29487.738888			
HLA B*1517	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.151291
	0.927533	-3.223758	14167.426017			
HLA B*1517	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.455293
	1.231508	-3.223785	28529.434764			
HLA A*0101	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.362693
	1.138874	-3.223819	23051.166886			
HLA A*6901	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.270830
	1.046875	-3.223956	18656.509811			
HLA A*8001	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.271023
	1.046875	-3.224148	18664.787878			
HLA A*2402	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.428598
	1.203934	-3.224665	26828.619046			

HLA A*0202	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.456219
	1.231508	-3.224711	28590.310004			
HLA A*0216	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.244302
	1.019585	-3.224718	17551.020185			
HLA B*5101	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.202679
	0.977336	-3.225343	15946.996150			
HLA B*5301	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.553516
	1.328019	-3.225496	35769.736206			
HLA B*4501	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.593976
	1.368126	-3.225850	39262.343523			
HLA B*5701	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.388286
	1.161468	-3.226818	24450.393619			
HLA B*1801	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.473812
	1.246912	-3.226900	29772.260350			
HLA A*0202	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.241192
	1.013420	-3.227772	17425.756759			
HLA A*2403	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.295502
	1.067238	-3.228265	19747.055322			
HLA A*0301	1:33-41	9	KGTDGQAC	1.197565	-0.058691	-4.367274
	1.138874	-3.228401	23295.627362			
HLA B*4402	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-3.980544
	0.751912	-3.228632	9561.906229			
HLA B*4002	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.557009
	1.328019	-3.228990	36058.646546			
HLA A*0219	1:8-16	9	LVTAVLLC	0.979168	0.067707	-4.276234
	1.046875	-3.229359	18890.098233			
HLA B*1501	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.322272
	1.092768	-3.229505	21002.566814			
HLA A*2301	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.037787
	0.808230	-3.229557	10909.060065			
HLA A*0202	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.564596
	1.334657	-3.229939	36694.071985			

HLA B*0803	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.490432
	1.260066	-3.230366	30933.713937			
HLA B*0803	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.477423
	1.246912	-3.230511	30020.848758			
HLA B*1517	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.323339
	1.092768	-3.230571	21054.214401			
HLA B*1502	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.476796
	1.245899	-3.230897	29977.516734			
HLA A*2301	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.409986
	1.179033	-3.230953	25703.111403			
HLA B*4601	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.353922
	1.122935	-3.230987	22590.315034			
HLA A*0301	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.249163
	1.017829	-3.231334	17748.573368			
HLA A*3101	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.370263
	1.138874	-3.231389	23456.486234			
HLA B*1801	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.393058
	1.161468	-3.231590	24720.523253			
HLA A*6901	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.307525
	1.075247	-3.232277	20301.337800			
HLA A*3101	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.209962
	0.977336	-3.232626	16216.692917			
HLA B*3901	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.487596
	1.254764	-3.232832	30732.382980			
HLA B*1502	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.568200
	1.334657	-3.233543	36999.854702			
HLA A*3301	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.395036
	1.161468	-3.233568	24833.385223			
HLA A*1101	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.305709
	1.071973	-3.233736	20216.618032			
HLA B*7301	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.562190
	1.328019	-3.234171	36491.358869			

HLA A*2402	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.481222
	1.246912		-3.234310	30284.616872		
HLA B*4403	1:5-13	9	IFMLVTAVV	1.049669	0.289907	-4.573898
	1.339576		-3.234321	37488.453048		
HLA A*2601	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.357449
	1.122935		-3.234514	22774.500699		
HLA B*4001	1:33-41	9	KGTDGQAC	1.197565	-0.058691	-4.373437
	1.138874		-3.234564	23628.552096		
HLA A*2402	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.569558
	1.334657		-3.234901	37115.731210		
HLA A*2501	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.220991
	0.985844		-3.235147	16633.773195		
HLA B*7301	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.604234
	1.368126		-3.236108	40200.742091		
HLA A*0201	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.236429
	1.000164		-3.236265	17235.712508		
HLA A*0250	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.483442
	1.246912		-3.236531	30439.838725		
HLA A*2301	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.257436
	1.020870		-3.236566	18089.892533		
HLA A*8001	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.398504
	1.161468		-3.237036	25032.473515		
HLA B*0702	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.309205
	1.071973		-3.237232	20380.016880		
HLA B*1501	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.284218
	1.046875		-3.237343	19240.562582		
HLA B*4501	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.606043
	1.368668		-3.237375	40368.552164		
HLA A*0203	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.251276
	1.013420		-3.237856	17835.103632		
HLA B*4002	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.360933
	1.122935		-3.237998	22957.952378		

HLA B*5401	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.399648
	1.161468	-3.238180	25098.511425			
HLA B*5801	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.276103
	1.037888	-3.238214	18884.376272			
HLA B*4402	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.400038
	1.161468	-3.238570	25121.061056			
HLA A*2603	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.417697
	1.179033	-3.238664	26163.552256			
HLA B*0802	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.400200
	1.161468	-3.238732	25130.440055			
HLA A*0301	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.362009
	1.122935	-3.239074	23014.906497			
HLA A*2602	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.573914
	1.334657	-3.239257	37489.872733			
HLA A*3301	1:46-54	9	SDPAYNINI	1.266370	0.129806	-4.635656
	1.396176	-3.239480	43217.145921			
HLA A*0301	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.164457
	0.924700	-3.239757	14603.517229			
HLA A*3001	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.197003
	0.956718	-3.240284	15739.920469			
HLA B*7301	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.495491
	1.254764	-3.240726	31296.120569			
HLA A*2301	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.402249
	1.161468	-3.240781	25249.271047			
HLA A*0301	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.333550
	1.092768	-3.240782	21555.093100			
HLA B*3901	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.195447
	0.954583	-3.240864	15683.651178			
HLA A*0301	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.316671
	1.075733	-3.240938	20733.432287			
HLA B*1509	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.496090
	1.254764	-3.241326	31339.324041			

HLA B*3501	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.242087
	1.000164	-3.241923	17461.711208			
HLA A*2301	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.528273
	1.285203	-3.243070	33749.929539			
HLA B*3801	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.528275
	1.285203	-3.243072	33750.112123			
HLA B*5401	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.503171
	1.260066	-3.243105	31854.513209			
HLA A*1101	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.447314
	1.203934	-3.243381	28010.077875			
HLA A*2603	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.612211
	1.368126	-3.244084	40945.914163			
HLA A*1101	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.092023
	0.847335	-3.244688	12360.124485			
HLA B*5701	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.337713
	1.092768	-3.244946	21762.720800			
HLA A*2501	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.448985
	1.203934	-3.245051	28118.024183			
HLA B*5701	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.317111
	1.071973	-3.245138	20754.417862			
HLA B*5701	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.384308
	1.138874	-3.245435	24227.476276			
HLA A*6901	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.244547
	0.999064	-3.245483	17560.897667			
HLA B*0801	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.321478
	1.075247	-3.246231	20964.197817			
HLA A*2403	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.284439
	1.037888	-3.246550	19250.349466			
HLA B*1503	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.156013
	0.909340	-3.246674	14322.321499			
HLA B*0702	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.000872
	0.754093	-3.246779	10020.103895			

HLA B*1501	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.285113
	1.037888	-3.247225	19280.261508			
HLA A*0301	1:13-219	VLLCCSGVA	1.166577	-0.167513	-4.246452	
	0.999064	-3.247388	17638.113968			
HLA B*7301	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.507529
	1.260066	-3.247463	32175.793602			
HLA A*3002	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.582147
	1.334657	-3.247490	38207.318751			
HLA A*1101	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-3.867210
	0.619394	-3.247816	7365.632100			
HLA A*3001	1:49-57	9	AYNINISLP	0.584960	0.117828	-3.950631
	0.702788	-3.247843	8925.464713			
HLA B*4402	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.250425
	1.002409	-3.248017	17800.209903			
HLA A*2402	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.485092
	1.236794	-3.248298	30555.661177			
HLA B*4402	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.387299
	1.138874	-3.248426	24394.901640			
HLA B*5801	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.332455
	1.083538	-3.248917	21500.820969			
HLA B*1509	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.169908
	0.920569	-3.249339	14787.960184			
HLA B*3801	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.495272
	1.245899	-3.249373	31280.378835			
HLA B*1509	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.324659
	1.075247	-3.249412	21118.324152			
HLA A*2301	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.509609
	1.260066	-3.249542	32330.212683			
HLA A*2602	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-3.938070
	0.688457	-3.249613	8671.026041			
HLA A*2301	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.462445
	1.212549	-3.249896	29003.138712			

HLA A*3301	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.634803
	1.384894	-3.249909	43132.359811			
HLA A*3201	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.584841
	1.334657	-3.250185	38445.137709			
HLA B*1502	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.429228
	1.179033	-3.250195	26867.544739			
HLA B*3501	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.227771
	0.977336	-3.250435	16895.513248			
HLA A*3101	1:13-219	9	VLLCCSGVA	1.166577	-0.167513	-4.249824
	0.999064	-3.250760	17775.574892			
HLA A*6901	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.326497
	1.075733	-3.250764	21207.855175			
HLA A*6901	1:33-419	9	KGTDGTGQAC	1.197565	-0.058691	-4.389667
	1.138874	-3.250794	24528.294519			
HLA A*0216	1:19-279	9	GVATAAPKT	1.007855	-0.294181	-3.964826
	0.713674	-3.251152	9222.027771			
HLA A*0219	1:33-419	9	KGTDGTGQAC	1.197565	-0.058691	-4.390128
	1.138874	-3.251254	24554.316602			
HLA A*6901	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.323459
	1.071973	-3.251486	21060.024151			
HLA A*0216	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-3.638967
	0.387379	-3.251588	4354.787351			
HLA A*0216	1:33-419	9	KGTDGTGQAC	1.197565	-0.058691	-4.390598
	1.138874	-3.251724	24580.898206			
HLA B*1503	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.328522
	1.075733	-3.252789	21306.985242			
HLA A*2602	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.498770
	1.245899	-3.252872	31533.370045			
HLA A*0203	1:33-419	9	KGTDGTGQAC	1.197565	-0.058691	-4.392374
	1.138874	-3.253500	24681.636900			
HLA A*0250	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.021064
	0.767355	-3.253709	10496.963781			

HLA A*0250	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.588403
	1.334657	-3.253747	38761.737858			
HLA A*0219	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.330239
	1.076055	-3.254185	21391.413294			
HLA B*4002	1:126-134	9	TTYKAFDW	1.082766	0.285902	-4.622920
	1.368668	-3.254251	41968.120896			
HLA B*0803	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.433408
	1.179033	-3.254375	27127.371475			
HLA B*1501	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.268483
	1.013420	-3.255063	18555.953064			
HLA B*1503	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.338655
	1.083538	-3.255117	21809.983343			
HLA B*4403	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-3.775538
	0.519628	-3.255910	5964.002503			
HLA A*2603	1:37-459		TGQACQIQM	1.304282	-0.067488	-4.492899
	1.236794	-3.256105	31109.929310			
HLA A*0216	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.035974
	0.779687	-3.256286	10863.594100			
HLA B*1503	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.323854
	1.067238	-3.256616	21079.173495			
HLA B*1501	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-3.876241
	0.619394	-3.256848	7520.408700			
HLA B*7301	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.591862
	1.334657	-3.257205	39071.643715			
HLA B*5801	1:78-869		LSAATSSTP	0.733359	0.025119	-4.015975
	0.758478	-3.257497	10374.680099			
HLA A*6802	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.122402
	0.864656	-3.257746	13255.670063			
HLA B*0802	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.461822
	1.203934	-3.257889	28961.589005			
HLA B*1517	1:33-419		KGTDGQAC	1.197565	-0.058691	-4.396819
	1.138874	-3.257946	24935.563365			

HLA A*3002	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.252667
	0.994492	-3.258175	17892.314869			
HLA B*5301	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.462198
	1.203934	-3.258265	28986.668495			
HLA A*6901	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-3.796091
	0.537766	-3.258325	6253.038632			
HLA B*1509	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.296266
	1.037888	-3.258378	19781.805410			
HLA A*0201	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.397449
	1.138874	-3.258575	24971.742419			
HLA A*6901	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.296578
	1.037888	-3.258690	19796.043843			
HLA A*2902	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.244768
	0.985844	-3.258923	17569.830174			
HLA B*4002	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.495810
	1.236794	-3.259016	31319.155003			
HLA A*3201	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.306044
	1.046875	-3.259170	20232.263944			
HLA B*5801	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.331294
	1.071973	-3.259322	21443.437056			
HLA A*2601	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.343162
	1.083538	-3.259624	22037.465536			
HLA A*3001	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.199780
	0.940065	-3.259715	15840.891703			
HLA A*6802	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.007972
	0.748062	-3.259911	10185.265829			
HLA B*7301	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.545215
	1.285203	-3.260012	35092.556420			
HLA B*1501	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.238466
	0.977336	-3.261130	17316.744330			
HLA B*4403	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.263592
	1.002409	-3.261183	18348.122777			

HLA A*6801	1:46-549		SDPAYNINI	1.266370	0.129806	-4.657417
	1.396176	-3.261241	45437.770389			
HLA B*0801	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.181971
	0.920569	-3.261402	15204.443482			
HLA B*1502	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.546843
	1.285203	-3.261640	35224.367209			
HLA A*0301	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.345457
	1.083538	-3.261919	22154.252079			
HLA B*3801	1:72-809		QTRDKFLSA	1.401913	-0.147149	-4.517381
	1.254764	-3.262617	32913.999485			
HLA B*4002	1:79-879		SAATSSTPR	0.650358	0.717768	-4.631096
	1.368126	-3.262970	42765.714479			
HLA A*2301	1:35-439		TDTGQACQI	1.187370	0.059542	-4.510252
	1.246912	-3.263341	32378.171605			
HLA B*1501	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-3.549640
	0.286028	-3.263612	3545.190142			
HLA B*4501	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.509719
	1.245899	-3.263820	32338.434163			
HLA A*2601	1:33-419		KGTDGTGQAC	1.197565	-0.058691	-4.403069
	1.138874	-3.264195	25296.987998			
HLA B*5701	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.111599
	0.847335	-3.264263	12930.006815			
HLA B*4801	1:33-419		KGTDGTGQAC	1.197565	-0.058691	-4.403374
	1.138874	-3.264501	25314.785263			
HLA B*1503	1:91-999		YELNITSAT	0.787532	-0.429583	-3.622699
	0.357949	-3.264750	4194.682736			
HLA A*2301	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.204916
	0.940065	-3.264851	16029.338459			
HLA A*2602	1:37-459		TGQACQIQM	1.304282	-0.067488	-4.501869
	1.236794	-3.265076	31759.185653			
HLA A*1101	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.388147
	1.122935	-3.265212	24442.590703			

HLA A*0250	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.265659
	1.000164	-3.265495	18435.680983			
HLA A*0211	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.222236
	0.956718	-3.265518	16681.534675			
HLA A*0211	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.337894
	1.071973	-3.265922	21771.788199			
HLA B*4402	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.389122
	1.122935	-3.266187	24497.528508			
HLA B*0702	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.405486
	1.138874	-3.266613	25438.203354			
HLA A*3001	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.267224
	1.000164	-3.267060	18502.224292			
HLA B*3801	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.498787
	1.231508	-3.267279	31534.564212			
HLA A*0206	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.286889
	1.019585	-3.267305	19359.276862			
HLA B*0802	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.343007
	1.075247	-3.267759	22029.598404			
HLA B*1509	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.429728
	1.161468	-3.268261	26898.522227			
HLA B*4403	1:4-12	9	KIFMLVTAV	1.048201	0.290033	-4.606915
	1.338234	-3.268681	40449.655992			
HLA A*3301	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.596939
	1.328019	-3.268920	39531.101809			
HLA A*3002	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.472905
	1.203934	-3.268971	29710.154272			
HLA B*0801	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.288668
	1.019585	-3.269083	19438.721202			
HLA A*1101	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.482369
	1.212549	-3.269819	30364.674676			
HLA A*2402	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.431368
	1.161468	-3.269901	27000.285821			

HLA A*0250	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.501524
	1.231508	-3.270016	31733.939083			
HLA A*3002	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.123346
	0.852998	-3.270348	13284.529538			
HLA B*1801	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.225403
	0.954583	-3.270820	16803.629927			
HLA B*3501	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.317790
	1.046875	-3.270915	20786.891901			
HLA B*5701	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.393974
	1.122935	-3.271039	24772.735077			
HLA A*0212	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.291146
	1.019585	-3.271562	19549.983611			
HLA A*0212	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.348208
	1.076055	-3.272154	22295.044315			
HLA A*6802	1:177-185	9	APNAGLDPV	0.672482	0.029184	-3.974121
	0.701666	-3.272455	9421.520304			
HLA B*5801	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.348368
	1.075733	-3.272635	22303.247556			
HLA A*2301	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.527434
	1.254764	-3.272670	33684.810177			
HLA B*0801	1:33-41	9	KGTDGTGQAC	1.197565	-0.058691	-4.411966
	1.138874	-3.273093	25820.599081			
HLA B*1509	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.533385
	1.260066	-3.273319	34149.578671			
HLA B*4403	1:79-87	9	SAATSSTPR	0.650358	0.717768	-4.641875
	1.368126	-3.273749	43840.466756			
HLA A*2403	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.049215
	0.775271	-3.273944	11199.927929			
HLA B*4601	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.350210
	1.076055	-3.274156	22398.044395			
HLA B*5101	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.292110
	1.017829	-3.274281	19593.394667			

HLA A*6801	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.529457
	1.254764	-3.274693	33842.077128			
HLA A*0211	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.313084
	1.037888	-3.275195	20562.860968			
HLA A*2501	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.347595
	1.071973	-3.275623	22263.586348			
HLA B*1517	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.488188
	1.212549	-3.275639	30774.308766			
HLA B*5101	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.296546
	1.020870	-3.275676	19794.544578			
HLA A*0216	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.289131
	1.013420	-3.275711	19459.449027			
HLA A*3002	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.278732
	1.002409	-3.276323	18999.042704			
HLA B*0802	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.399523
	1.122935	-3.276588	25091.316108			
HLA A*3201	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.489478
	1.212549	-3.276929	30865.845225			
HLA B*4002	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.531717
	1.254764	-3.276953	34018.661002			
HLA A*0301	1:18-26	9	SGVATAAPK	0.424227	0.140104	-3.841751
	0.564331	-3.277420	6946.259494			
HLA A*6801	1:87-95	9	REAPYELNI	1.162222	0.222672	-4.662316
	1.384894	-3.277422	45953.192539			
HLA B*0801	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.370437
	1.092768	-3.277669	23465.878491			
HLA B*5801	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.353262
	1.075247	-3.278015	22555.999804			
HLA B*5701	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.315943
	1.037888	-3.278055	20698.690101			
HLA B*3801	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.525592
	1.246912	-3.278680	33542.243555			

HLA A*0203	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.346000
	1.067238	-3.278762	22181.955209			
HLA A*6801	1:22-309	9	TAAPKTYCE	1.011561	-0.590459	-3.700575
	0.421102	-3.279473	5018.514098			
HLA A*0101	1:56-649	9	LPSYYPDQK	0.981412	0.093835	-4.354963
	1.075247	-3.279716	22644.519478			
HLA B*0801	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.003532
	0.723137	-3.280395	10081.655234			
HLA A*6801	1:31-399	9	ELKGTDTGQ	0.941370	-0.200769	-4.021266
	0.740601	-3.280665	10501.848635			
HLA A*2402	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-3.968459
	0.687624	-3.280834	9299.481387			
HLA B*2705	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.318953
	1.037888	-3.281064	20842.631617			
HLA B*3501	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.134201
	0.852998	-3.281203	13620.743028			
HLA B*0702	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.006807
	0.725355	-3.281452	10157.972289			
HLA B*5801	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.357540
	1.076055	-3.281486	22779.306300			
HLA B*4002	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.616202
	1.334657	-3.281546	41323.999411			
HLA A*6801	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.609640
	1.328019	-3.281621	40704.294805			
HLA A*2402	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.513434
	1.231508	-3.281925	32616.212143			
HLA A*0202	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.374760
	1.092768	-3.281992	23700.628883			
HLA A*2603	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.365566
	1.083538	-3.282028	23204.185844			
HLA B*0803	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.405068
	1.122935	-3.282133	25413.719166			

HLA A*0201	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.882693
	0.600517	-3.282176	7632.962505			
HLA A*2501	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.303211
	1.020870	-3.282341	20100.691729			
HLA A*2402	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.177511
	0.895143	-3.282368	15049.123494			
HLA B*4601	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.355238
	1.071973	-3.283265	22658.857023			
HLA A*6801	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.529295
	1.245899	-3.283396	33829.446835			
HLA B*0803	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.487429
	1.203934	-3.283496	30720.580873			
HLA A*2601	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.376491
	1.092768	-3.283724	23795.314016			
HLA B*4403	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.611860
	1.328019	-3.283841	40912.922046			
HLA A*0212	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.359596
	1.075733	-3.283863	22887.391248			
HLA B*1509	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.487841
	1.203934	-3.283907	30749.678759			
HLA B*4601	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.376679
	1.092768	-3.283912	23805.614646			
HLA B*4403	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.530984
	1.246912	-3.284073	33961.289832			
HLA B*0702	1:13-219	9	VLLCCSGVA	1.166577	-0.167513	-4.283158
	0.999064	-3.284094	19193.675525			
HLA A*1101	1:21-299	9	ATAAPKTYC	0.926919	0.086501	-4.297633
	1.013420	-3.284213	19844.187678			
HLA A*0101	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.131969
	0.847335	-3.284634	13550.920231			
HLA B*5401	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.302795
	1.017829	-3.284966	20081.453517			

HLA B*4601	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.368588
	1.083538	-3.285050	23366.182953			
HLA A*6901	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.279859
	0.994492	-3.285368	19048.442519			
HLA A*3101	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.361311
	1.075733	-3.285578	22977.957285			
HLA A*2601	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.306679
	1.020870	-3.285809	20261.838201			
HLA A*2603	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.531738
	1.245899	-3.285840	34020.317377			
HLA B*0801	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.369572
	1.083538	-3.286034	23419.208172			
HLA A*0219	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.361845
	1.075733	-3.286112	23006.192580			
HLA B*3801	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.498857
	1.212549	-3.286308	31539.682583			
HLA B*3501	1:77-85	9	FLSAATSST	0.627583	-0.297236	-3.616661
	0.330347	-3.286314	4136.765875			
HLA A*2402	1:150-158	9	ADTDLPVVV	1.257750	0.027453	-4.571755
	1.285203	-3.286551	37303.947343			
HLA B*3801	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.465751
	1.179033	-3.286718	29224.744641			
HLA A*2902	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.358753
	1.071973	-3.286780	22842.983633			
HLA B*4501	1:166-174	9	LSKQTGQQV	1.247032	0.080987	-4.615272
	1.328019	-3.287253	41235.565102			
HLA A*6801	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.276030
	0.987852	-3.288178	18881.209504			
HLA B*3901	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.215719
	0.927533	-3.288186	16433.063413			
HLA B*4801	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.065220
	0.776623	-3.288597	11620.369020			

HLA A*0212	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-3.889131
	0.600517	-3.288613	7746.949375			
HLA A*3201	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.573818
	1.285203	-3.288614	37481.558197			
HLA A*1101	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.428281
	1.138874	-3.289408	26809.032319			
HLA A*2301	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.307252
	1.017829	-3.289423	20288.601750			
HLA B*4402	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.382328
	1.092768	-3.289560	24117.237550			
HLA A*2501	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.373526
	1.083538	-3.289988	23633.410053			
HLA B*1502	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.545119
	1.254764	-3.290355	35084.773563			
HLA A*0301	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.366438
	1.076055	-3.290383	23250.805011			
HLA A*0250	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.527213
	1.236794	-3.290419	33667.684809			
HLA B*5301	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.575660
	1.285203	-3.290456	37640.868326			
HLA B*4001	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.293132
	1.002409	-3.290723	19639.558135			
HLA B*7301	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.503509
	1.212549	-3.290960	31879.338309			
HLA A*0203	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.328924
	1.037888	-3.291035	21326.705263			
HLA A*0212	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.337950
	1.046875	-3.291076	21774.615174			
HLA A*0101	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.367599
	1.075733	-3.291865	23313.025549			
HLA A*2403	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.368238
	1.076055	-3.292183	23347.355682			

HLA A*2402	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.546994
	1.254764		35236.565155			
HLA A*0101	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.368449
	1.076055		23358.726044			
HLA A*0101	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.385504
	1.092768		24294.281804			
HLA A*3001	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.260004
	0.967178		18197.175096			
HLA B*3901	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.249828
	0.956718		17775.767221			
HLA A*0203	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-3.973769
	0.680076		9413.877998			
HLA A*6802	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.432790
	1.138874		27088.802073			
HLA B*5801	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.312071
	1.017829		20514.971175			
HLA B*4801	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.369718
	1.075247		23427.064599			
HLA A*0201	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.370827
	1.076055		23486.961291			
HLA A*2601	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.366769
	1.071973		23268.547360			
HLA A*0201	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.251598
	0.956718		17848.327104			
HLA A*0101	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.366877
	1.071973		23274.338573			
HLA B*5401	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.542085
	1.246912		34840.589354			
HLA B*0702	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.418160
	1.122935		26191.450878			
HLA A*2501	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.418305
	1.122935		26200.237308			

HLA A*0219	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.038210
	0.742712	-3.295498	10919.688264			
HLA B*5801	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.362770
	1.067238	-3.295533	23055.282494			
HLA A*2902	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.272905
	0.977336	-3.295569	18745.843893			
HLA B*0801	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.342548
	1.046875	-3.295674	22006.371010			
HLA A*0301	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.309129
	1.013420	-3.295710	20376.489069			
HLA A*3001	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.283666
	0.987852	-3.295814	19216.117136			
HLA B*4501	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.630694
	1.334657	-3.296037	42726.170594			
HLA A*0301	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.143674
	0.847335	-3.296339	13921.111856			
HLA B*4501	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.253106
	0.956718	-3.296388	17910.424776			
HLA A*6801	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.500664
	1.203934	-3.296730	31671.167432			
HLA B*1502	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.295803
	0.999064	-3.296739	19760.734218			
HLA A*3001	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.269343
	0.972498	-3.296845	18592.730610			
HLA A*0206	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.010651
	0.713674	-3.296977	10248.275249			
HLA B*1503	1:77-85	9	FLSAATSST	0.627583	-0.297236	-3.628018
	0.330347	-3.297671	4246.375082			
HLA A*0216	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.335754
	1.037888	-3.297865	21664.751898			
HLA B*4601	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.373785
	1.075733	-3.298052	23647.478193			

HLA B*5401	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.543972
	1.245899	-3.298074	34992.271010			
HLA A*6802	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.370113
	1.071973	-3.298140	23448.366232			
HLA A*0201	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.391115
	1.092768	-3.298347	24610.171208			
HLA A*0203	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.382036
	1.083538	-3.298498	24101.064499			
HLA A*0301	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.365775
	1.067238	-3.298538	23215.360888			
HLA B*1801	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.421557
	1.122935	-3.298622	26397.142215			
HLA A*3001	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.226639
	0.927533	-3.299106	16851.514462			
HLA A*0203	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.391885
	1.092768	-3.299118	24653.879337			
HLA A*2403	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.382866
	1.083538	-3.299328	24147.134057			
HLA A*2902	1:33-41	9	KGTDGQAC	1.197565	-0.058691	-4.438372
	1.138874	-3.299499	27439.246195			
HLA A*3301	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.559749
	1.260066	-3.299683	36286.820888			
HLA B*5701	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.347475
	1.046875	-3.300601	22257.444575			
HLA B*3801	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.504653
	1.203934	-3.300720	31963.438862			
HLA B*5301	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.546855
	1.245899	-3.300956	35225.320021			
HLA B*1501	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.377022
	1.076055	-3.300968	23824.424791			
HLA B*4403	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.424036
	1.122935	-3.301100	26548.232896			

HLA B*5701	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.080853
	0.779687	-3.301166	12046.292191			
HLA B*4501	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.561248
	1.260066	-3.301182	36412.281577			
HLA A*6901	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.368468
	1.067238	-3.301230	23359.737011			
HLA B*1517	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.348206
	1.046875	-3.301331	22294.923701			
HLA A*8001	1:33-41	9	KGTDGQAC	1.197565	-0.058691	-4.440623
	1.138874	-3.301749	27581.824005			
HLA A*1101	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.348648
	1.046875	-3.301773	22317.610492			
HLA A*3101	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.377871
	1.076055	-3.301816	23870.998641			
HLA A*2601	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.377793
	1.075733	-3.302060	23866.737420			
HLA A*2902	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.369445
	1.067238	-3.302208	23412.367624			
HLA A*3101	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.296769
	0.994492	-3.302277	19804.720390			
HLA A*0101	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.369645
	1.067238	-3.302407	23423.136056			
HLA B*0802	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.378545
	1.076055	-3.302490	23908.090453			
HLA B*4001	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.378994
	1.076055	-3.302939	23932.807183			
HLA A*0216	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.079636
	0.776623	-3.303014	12012.581850			
HLA B*4801	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.395839
	1.092768	-3.303072	24879.374038			
HLA B*1502	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.550292
	1.246912	-3.303381	35505.222936			

HLA A*0201	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.083381
	0.779687	-3.303694	12116.618636			
HLA A*0216	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-3.344393
	0.040514	-3.303879	2210.004827			
HLA A*1101	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.387518
	1.083538	-3.303980	24407.178283			
HLA A*2902	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.379318
	1.075247	-3.304070	23950.681243			
HLA B*2705	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.442968
	1.138874	-3.304094	27731.142915			
HLA B*4403	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.639079
	1.334657	-3.304423	43559.138533			
HLA B*3901	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.306862
	1.002409	-3.304454	20270.389920			
HLA B*4001	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.388326
	1.083538	-3.304788	24452.642379			
HLA A*0202	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.259294
	0.954256	-3.305039	18167.469070			
HLA A*8001	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.381942
	1.076055	-3.305888	24095.849699			
HLA B*3801	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.467494
	1.161468	-3.306026	29342.292560			
HLA B*1509	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.262840
	0.956718	-3.306121	18316.386635			
HLA B*5801	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.261158
	0.954978	-3.306180	18245.575698			
HLA A*3002	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.283957
	0.977336	-3.306621	19229.012137			
HLA B*3801	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.373874
	1.067238	-3.306636	23652.340041			
HLA A*2403	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.379097
	1.071973	-3.307124	23938.504710			

HLA B*1501	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.194061
	0.886699	-3.307362	15633.671364			
HLA A*2403	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.328423
	1.020870	-3.307554	21302.144518			
HLA B*1517	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.327512
	1.019585	-3.307927	21257.477424			
HLA A*3101	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.327735
	1.019585	-3.308150	21268.405289			
HLA A*2601	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.384266
	1.076055	-3.308211	24225.117167			
HLA B*0801	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.262988
	0.954583	-3.308405	18322.630346			
HLA B*0801	1:154-162	9	PLPVFPIV	1.026322	-0.131179	-4.204140
	0.895143	-3.308997	16000.747396			
HLA A*0101	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.392973
	1.083538	-3.309435	24715.709251			
HLA A*0201	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.196749
	0.886699	-3.310050	15730.726823			
HLA A*2601	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.348086
	1.037888	-3.310198	22288.773283			
HLA B*4402	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.266954
	0.956718	-3.310235	18490.716949			
HLA A*3301	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.403118
	1.092768	-3.310351	25299.862093			
HLA B*3501	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.331236
	1.020870	-3.310366	21440.537086			
HLA A*3201	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.433518
	1.122935	-3.310583	27134.269887			
HLA A*2603	1:150-158	9	ADTDLPVV	1.257750	0.027453	-4.595987
	1.285203	-3.310784	39444.583779			
HLA A*2902	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.309865
	0.999064	-3.310801	20411.021711			

HLA A*2603	1:212-220	9	GPTQVLVPR	0.849469	0.485188	-4.645580
	1.334657	-3.310924	44216.087107			
HLA B*1801	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.387306
	1.076055	-3.311252	24395.297564			
HLA B*3901	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.386674
	1.075247	-3.311427	24359.821878			
HLA A*0250	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.383444
	1.071973	-3.311471	24179.291246			
HLA B*4801	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.383834
	1.071973	-3.311861	24201.015009			
HLA B*5401	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.548899
	1.236794	-3.312105	35391.502408			
HLA A*3101	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.252225
	0.940065	-3.312160	17874.126578			
HLA B*4402	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.395724
	1.083538	-3.312186	24872.779774			
HLA A*6801	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.359082
	1.046875	-3.312207	22860.291108			
HLA B*1501	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-3.405052
	0.091985	-3.313067	2541.278288			
HLA A*2501	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.451985
	1.138874	-3.313112	28312.948074			
HLA A*0101	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.199883
	0.886699	-3.313184	15844.662840			
HLA A*3002	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.544799
	1.231508	-3.313291	35058.969613			
HLA A*2501	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.389454
	1.076055	-3.313399	24516.222214			
HLA A*0201	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.397061
	1.083538	-3.313523	24949.461796			
HLA B*0802	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.406859
	1.092768	-3.314091	25518.699276			

HLA B*5301	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.574412
	1.260066	-3.314346	37532.894403			
HLA B*4403	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.527145
	1.212549	-3.314596	33662.403209			
HLA A*3001	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.269216
	0.954256	-3.314961	18587.299834			
HLA A*0201	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.390264
	1.075247	-3.315017	24562.022307			
HLA A*3002	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.408080
	1.092768	-3.315313	25590.588079			
HLA B*4402	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.382793
	1.067238	-3.315555	24143.084763			
HLA A*0201	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.383166
	1.067238	-3.315929	24163.860912			
HLA B*4001	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.408905
	1.092768	-3.316137	25639.227472			
HLA B*1503	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.059717
	0.742712	-3.317005	11474.068175			
HLA B*7301	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.563012
	1.245899	-3.317114	36560.519296			
HLA B*3801	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.577182
	1.260066	-3.317116	37773.054022			
HLA B*0702	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.392548
	1.075247	-3.317300	24691.519723			
HLA B*4001	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.393166
	1.075733	-3.317433	24726.675842			
HLA B*2705	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.364493
	1.046875	-3.317618	23146.888544			
HLA B*1503	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.024630
	0.706847	-3.317783	10583.522001			
HLA A*2902	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.393713
	1.075733	-3.317980	24757.863572			

HLA B*1503	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.273551
	0.954978	-3.318573	18773.753207			
HLA B*1501	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.394185
	1.075247	-3.318938	24784.799611			
HLA A*0250	1:33-41	9	KGTDGTGQAC	1.197565	-0.058691	-4.457838
	1.138874	-3.318964	28697.076773			
HLA B*5101	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.366090
	1.046875	-3.319216	23232.196389			
HLA A*2601	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.332744
	1.013420	-3.319324	21515.132729			
HLA B*4601	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.395179
	1.075247	-3.319932	24841.581672			
HLA A*1101	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.244850
	0.924700	-3.320150	17573.157268			
HLA B*5401	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.499313
	1.179033	-3.320280	31572.801439			
HLA A*3101	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.387527
	1.067238	-3.320289	24407.706449			
HLA A*2602	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.524330
	1.203934	-3.320397	33444.941037			
HLA A*2902	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.320623
	1.000164	-3.320459	20922.955747			
HLA A*8001	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.338359
	1.017829	-3.320530	21795.121720			
HLA B*5401	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.367429
	1.046875	-3.320555	23303.946614			
HLA A*6901	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.168080
	0.847335	-3.320745	14725.850030			
HLA A*3001	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.079242
	0.758478	-3.320764	12001.669038			
HLA B*4001	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.358675
	1.037888	-3.320787	22838.905923			

HLA B*4801	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.404704
	1.083538	-3.321166	25392.417861			
HLA A*6801	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.017831
	0.696230	-3.321600	10419.114420			
HLA A*0250	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.500657
	1.179033	-3.321624	31670.653424			
HLA A*2402	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.388911
	1.067238	-3.321673	24485.603809			
HLA A*8001	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.405451
	1.083538	-3.321913	25436.139170			
HLA B*2705	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.397801
	1.075733	-3.322068	24992.014797			
HLA B*1503	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.369088
	1.046875	-3.322213	23393.123474			
HLA B*4403	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.553791
	1.231508	-3.322283	35792.384079			
HLA A*3002	1:33-41	9	KGTDGTGQAC	1.197565	-0.058691	-4.461214
	1.138874	-3.322340	28921.037564			
HLA B*4501	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.501562
	1.179033	-3.322529	31736.686035			
HLA A*2601	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.390311
	1.067238	-3.323073	24564.680007			
HLA A*3001	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-3.758015
	0.434427	-3.323588	5728.162870			
HLA B*1501	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.318130
	0.994492	-3.323638	20803.204242			
HLA A*0250	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.536362
	1.212549	-3.323813	34384.455178			
HLA B*0801	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.391394
	1.067238	-3.324157	24626.019767			
HLA A*3101	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.312151
	0.987852	-3.324299	20518.744969			

HLA A*0250	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.407902
	1.083538	-3.324364	25580.068631			
HLA A*0101	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.301919
	0.977336	-3.324583	20040.972237			
HLA A*3002	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.362514
	1.037888	-3.324626	23041.691311			
HLA A*3001	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.279331
	0.954583	-3.324748	19025.270383			
HLA A*0206	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.417654
	1.092768	-3.324887	26161.004626			
HLA A*2301	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.325148
	1.000164	-3.324984	21142.101068			
HLA A*2602	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.115583
	0.790540	-3.325044	13049.187768			
HLA B*4001	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.400578
	1.075247	-3.325331	25152.338006			
HLA A*0212	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.397491
	1.071973	-3.325519	24974.174236			
HLA B*1502	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.409217
	1.083538	-3.325679	25657.681926			
HLA A*0219	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.339287
	1.013420	-3.325867	21841.745649			
HLA B*3801	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.402150
	1.076055	-3.326096	25243.534677			
HLA B*7301	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.393614
	1.067238	-3.326377	24752.238844			
HLA B*1801	1:33-41	9	KGTDGQAC	1.197565	-0.058691	-4.465340
	1.138874	-3.326466	29197.089774			
HLA A*1101	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.419238
	1.092768	-3.326470	26256.568709			
HLA A*0101	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.346185
	1.019585	-3.326601	22191.437387			

HLA A*6901	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.130700
	0.804086	-3.326614	13511.391151			
HLA A*0202	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.321502
	0.994492	-3.327010	20965.331988			
HLA B*2705	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.103662
	0.776623	-3.327039	12695.862010			
HLA B*0802	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.411095
	1.083538	-3.327557	25768.827333			
HLA B*4001	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.399538
	1.071973	-3.327565	25092.130568			
HLA A*0203	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.075793
	0.748062	-3.327731	11906.732654			
HLA A*6901	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.255272
	0.927533	-3.327739	17999.983672			
HLA B*1501	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-3.729450
	0.401614	-3.327836	5363.525123			
HLA B*1517	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.323487
	0.994492	-3.328995	21061.391385			
HLA B*5301	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.421782
	1.092768	-3.329015	26410.855114			
HLA B*5301	1:72-80	9	QTRDKFLSA	1.401913	-0.147149	-4.583951
	1.254764	-3.329187	38366.392554			
HLA B*0702	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.367415
	1.037888	-3.329527	23303.190195			
HLA A*0203	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.043215
	0.713674	-3.329540	11046.244285			
HLA B*1517	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.405618
	1.075733	-3.329885	25445.911122			
HLA A*3002	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-3.978505
	0.648415	-3.330090	9517.110842			
HLA A*3201	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.397750
	1.067238	-3.330512	24989.040486			

HLA B*5701	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.407014
	1.075733	-3.331280	25527.812423			
HLA B*0702	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.349573
	1.017829	-3.331744	22365.231131			
HLA A*2601	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.407150
	1.075247	-3.331902	25535.823633			
HLA B*2705	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.352832
	1.020870	-3.331962	22533.680195			
HLA B*5701	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.407486
	1.075247	-3.332238	25555.586150			
HLA B*4501	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.309804
	0.977336	-3.332468	20408.150958			
HLA B*3501	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.455528
	1.122935	-3.332593	28544.873048			
HLA B*0802	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.370545
	1.037888	-3.332657	23471.718816			
HLA A*0202	1:53-61	9	NISLPSYYP	0.515820	0.118220	-3.967101
	0.634040	-3.333061	9270.448107			
HLA A*3301	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.579088
	1.245899	-3.333189	37939.144366			
HLA A*0203	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.408651
	1.075247	-3.333404	25624.251667			
HLA B*4002	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.546550
	1.212549	-3.334000	35200.555271			
HLA A*3101	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.336574
	1.002409	-3.334165	21705.694700			
HLA B*4601	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.381160
	1.046875	-3.334285	24052.480269			
HLA B*1517	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.457297
	1.122935	-3.334362	28661.391938			
HLA A*0212	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.401640
	1.067238	-3.334403	25213.917520			

HLA B*4402	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.410460
	1.076055	-3.334406	25731.215054			
HLA A*8001	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.427466
	1.092768	-3.334698	26758.752766			
HLA B*4403	1:108-116	9	GTQAVVLKV	1.154603	0.091296	-4.580671
	1.245899	-3.334773	38077.733062			
HLA B*1509	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.355675
	1.020870	-3.334805	22681.668732			
HLA A*2402	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.088931
	0.754093	-3.334838	12272.440141			
HLA B*5401	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.547875
	1.212549	-3.335325	35308.122432			
HLA B*5701	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.312792
	0.977336	-3.335456	20549.071487			
HLA B*1502	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.595543
	1.260066	-3.335477	39404.273524			
HLA A*0219	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.402839
	1.067238	-3.335601	25283.579871			
HLA B*1509	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.474853
	1.138874	-3.335979	29843.697549			
HLA B*5701	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.412283
	1.076055	-3.336229	25839.463657			
HLA B*0801	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.357111
	1.020870	-3.336241	22756.765725			
HLA A*3001	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.201030
	0.864656	-3.336374	15886.548426			
HLA B*5301	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.549031
	1.212549	-3.336481	35402.226022			
HLA B*2705	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-3.929438
	0.592876	-3.336563	8500.382776			
HLA A*0212	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.293806
	0.956718	-3.337088	19670.074947			

HLA B*1502	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.568675
	1.231508	-3.337167	37040.310155			
HLA A*0216	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.331663
	0.994492	-3.337171	21461.657831			
HLA A*3002	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.223961
	0.886699	-3.337262	16747.906380			
HLA B*4601	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.404525
	1.067238	-3.337288	25381.979874			
HLA B*5101	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.476197
	1.138874	-3.337323	29936.190609			
HLA A*6901	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.291955
	0.954583	-3.337372	19586.400042			
HLA A*6802	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.375263
	1.037888	-3.337374	23728.083376			
HLA B*3501	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.413197
	1.075733	-3.337464	25893.898694			
HLA B*2705	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.184851
	0.847335	-3.337516	15305.622485			
HLA A*6801	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.499059
	1.161468	-3.337592	31554.359849			
HLA B*7301	1:138-146	9	YRKPIYDT	0.544186	-0.159948	-3.722129
	0.384238	-3.337892	5273.868830			
HLA A*2603	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.461064
	1.122935	-3.338128	28911.025882			
HLA B*5101	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.061729
	0.723137	-3.338592	11527.326257			
HLA B*1509	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.414699
	1.076055	-3.338644	25983.566707			
HLA B*1517	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-3.905220
	0.566374	-3.338846	8039.332502			
HLA B*4601	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.376804
	1.037888	-3.338916	23812.441269			

HLA A*2902	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.192040
	0.852998	-3.339043	15561.104575			
HLA B*1503	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.234296
	0.895143	-3.339153	17151.255202			
HLA A*0101	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.377293
	1.037888	-3.339404	23839.251465			
HLA A*0212	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.414743
	1.075247	-3.339496	25986.237640			
HLA A*3101	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.234961
	0.895143	-3.339818	17177.533861			
HLA A*2501	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.415655
	1.075733	-3.339922	26040.841001			
HLA B*0702	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.432701
	1.092768	-3.339933	27083.233843			
HLA B*5701	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.353405
	1.013420	-3.339986	22563.444586			
HLA A*3001	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.249880
	0.909340	-3.340540	17777.882975			
HLA A*2403	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.387701
	1.046875	-3.340826	24417.479586			
HLA B*4001	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.387713
	1.046875	-3.340838	24418.140075			
HLA B*5801	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.360498
	1.019585	-3.340914	22934.986876			
HLA A*2402	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.361901
	1.020870	-3.341031	23009.179837			
HLA B*4801	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.194564
	0.853458	-3.341106	15651.781201			
HLA A*6802	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.262006
	0.920569	-3.341437	18281.243577			
HLA A*0301	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.361321
	1.019585	-3.341736	22978.454523			

HLA B*4001	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.408980
	1.067238	-3.341742	25643.666429			
HLA B*5301	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.464712
	1.122935	-3.341777	29154.946761			
HLA A*0216	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.413942
	1.071973	-3.341970	25938.343142			
HLA A*2902	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.336689
	0.994492	-3.342197	21711.449307			
HLA A*0202	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.481356
	1.138874	-3.342482	30293.956988			
HLA B*4801	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.299294
	0.956718	-3.342576	19920.232896			
HLA A*3301	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.096759
	0.754093	-3.342667	12495.665948			
HLA B*3501	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.263303
	0.920569	-3.342734	18335.917697			
HLA B*3901	1:33-41	9	KGDTGQAC	1.197565	-0.058691	-4.481777
	1.138874	-3.342903	30323.306961			
HLA B*0803	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.380984
	1.037888	-3.343095	24042.723155			
HLA A*6901	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.300039
	0.956718	-3.343321	19954.424108			
HLA B*4402	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.418604
	1.075247	-3.343356	26218.244521			
HLA A*2403	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.437061
	1.092768	-3.344294	27356.539741			
HLA A*0201	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.382339
	1.037888	-3.344451	24117.889916			
HLA B*4403	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.548643
	1.203934	-3.344709	35370.638973			
HLA A*2403	1:154-162	9	PLPVVFP	1.026322	-0.131179	-4.239857
	0.895143	-3.344714	17372.292781			

HLA A*3001	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.265403
	0.920569	-3.344834	18424.813074			
HLA A*0101	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.362796
	1.017829	-3.344967	23056.654526			
HLA A*3101	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.330839
	0.985844	-3.344994	21420.943578			
HLA B*0702	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.300044
	0.954583	-3.345461	19954.640011			
HLA B*0803	1:33-419		KGDTGQAC	1.197565	-0.058691	-4.484796
	1.138874	-3.345922	30534.840129			
HLA B*4801	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.383923
	1.037888	-3.346035	24205.990663			
HLA A*3001	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.241438
	0.895143	-3.346295	17435.658069			
HLA B*0801	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.202416
	0.856017	-3.346399	15937.336671			
HLA B*5701	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.413698
	1.067238	-3.346460	25923.753596			
HLA B*2705	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.439234
	1.092768	-3.346467	27493.778996			
HLA B*3801	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.469451
	1.122935	-3.346516	29474.820162			
HLA B*5801	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.348995
	1.002409	-3.346587	22335.486546			
HLA B*4801	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.422880
	1.076055	-3.346825	26477.664338			
HLA A*2902	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.360329
	1.013420	-3.346909	22926.055163			
HLA A*2602	1:35-439		TDTGQACQI	1.187370	0.059542	-4.593925
	1.246912	-3.347013	39257.670892			
HLA A*3201	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.578552
	1.231508	-3.347044	37892.376997			

HLA A*0216	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.430664
	1.083538	-3.347126	26956.500795			
HLA A*0219	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.440106
	1.092768	-3.347339	27549.016318			
HLA A*0202	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.054187
	0.706847	-3.347340	11328.873783			
HLA A*0212	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.440308
	1.092768	-3.347541	27561.836493			
HLA B*5801	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.347731
	1.000164	-3.347567	22270.573169			
HLA A*0301	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.350041
	1.002409	-3.347632	22389.321787			
HLA A*2501	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.414934
	1.067238	-3.347696	25997.627331			
HLA A*1101	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.365540
	1.017829	-3.347712	23202.805032			
HLA B*4601	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.346883
	0.999064	-3.347820	22227.121852			
HLA B*2705	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.423068
	1.075247	-3.347820	26489.126117			
HLA B*1501	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.415533
	1.067238	-3.348295	26033.516372			
HLA A*6802	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.423606
	1.075247	-3.348358	26521.962894			
HLA A*3002	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.928132
	0.579719	-3.348413	8474.852903			
HLA B*5801	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.343009
	0.994492	-3.348517	22029.717582			
HLA A*3101	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.303150
	0.954583	-3.348567	20097.864623			
HLA A*2902	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.366530
	1.017829	-3.348701	23255.711116			

HLA A*0201	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.362131
	1.013420	-3.348712	23021.381828			
HLA B*5801	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.157780
	0.809025	-3.348756	14380.706774			
HLA B*4601	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.343251
	0.994492	-3.348759	22041.996371			
HLA B*3901	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.303129
	0.954256	-3.348873	20096.886102			
HLA A*0216	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.416179
	1.067238	-3.348941	26072.275767			
HLA B*4801	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.425079
	1.075733	-3.349346	26612.078154			
HLA A*2403	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.316544
	0.967178	-3.349366	20727.376231			
HLA A*3201	1:37-459		TGQACQIQM	1.304282	-0.067488	-4.586270
	1.236794	-3.349476	38571.800136			
HLA A*2501	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.424839
	1.075247	-3.349592	26597.397429			
HLA A*2902	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.425746
	1.076055	-3.349692	26652.996603			
HLA B*0802	1:33-419		KGTDGQAC	1.197565	-0.058691	-4.488578
	1.138874	-3.349705	30801.957789			
HLA B*4601	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.369513
	1.019585	-3.349929	23416.041003			
HLA A*0206	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.433852
	1.083538	-3.350314	27155.122557			
HLA A*0101	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.363781
	1.013420	-3.350361	23108.977328			
HLA B*1502	1:33-419		KGTDGQAC	1.197565	-0.058691	-4.489577
	1.138874	-3.350703	30872.859216			
HLA A*2402	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.368555
	1.017829	-3.350726	23364.413301			

HLA B*4002	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.530004
	1.179033	-3.350972	33884.762104			
HLA A*3301	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.636279
	1.285203	-3.351075	43279.147345			
HLA B*5801	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.350372
	0.999064	-3.351309	22406.406751			
HLA A*0301	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.324314
	0.972498	-3.351816	21101.536403			
HLA A*1101	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.346359
	0.994492	-3.351867	22200.323103			
HLA B*3501	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.292225
	0.940065	-3.352160	19598.589262			
HLA B*7301	1:35-439		TDTGQACQI	1.187370	0.059542	-4.599286
	1.246912	-3.352374	39745.325190			
HLA B*4601	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.330026
	0.977336	-3.352690	21380.884895			
HLA A*6901	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.161793
	0.809025	-3.352769	14514.201610			
HLA A*2501	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.445679
	1.092768	-3.352912	27904.810315			
HLA A*2403	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.428319
	1.075247	-3.353071	26811.352962			
HLA B*0702	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.374029
	1.020870	-3.353159	23660.786681			
HLA B*1801	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.446062
	1.092768	-3.353294	27929.427962			
HLA B*5101	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.446144
	1.092768	-3.353377	27934.716791			
HLA A*2601	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.371748
	1.017829	-3.353919	23536.822390			
HLA A*2603	1:9-179		VTAVVLLCC	1.208701	0.051365	-4.614102
	1.260066	-3.354036	41124.620860			

HLA B*1801	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.400921
	1.046875	-3.354047	25172.212273			
HLA A*2601	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.354312
	1.000164	-3.354148	22610.611189			
HLA B*4402	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.375216
	1.020870	-3.354346	23725.516188			
HLA A*3101	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.208130
	0.852998	-3.355132	16148.407293			
HLA A*2402	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.431761
	1.076055	-3.355706	27024.690292			
HLA A*0216	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.448562
	1.092768	-3.355794	28090.656739			
HLA B*3901	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.439460
	1.083538	-3.355922	27508.061581			
HLA A*6802	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.310370
	0.954256	-3.356114	20434.776117			
HLA B*0802	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.428138
	1.071973	-3.356165	26800.186711			
HLA A*0250	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.350802
	0.994492	-3.356310	22428.600295			
HLA A*0101	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.356657
	1.000164	-3.356493	22733.017590			
HLA A*2603	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.165754
	0.809025	-3.356730	14647.192291			
HLA B*1503	1:138-146	9	YRKPIYDT	0.544186	-0.159948	-3.741000
	0.384238	-3.356763	5508.081879			
HLA B*1501	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.357073
	1.000164	-3.356909	22754.796025			
HLA A*3002	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.604279
	1.246912	-3.357367	40204.874453			
HLA B*1509	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.440945
	1.083538	-3.357407	27602.273984			

HLA A*1101	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.433436
	1.075733	-3.357703	27129.132605			
HLA B*0801	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.222396
	0.864656	-3.357740	16687.672481			
HLA B*4001	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.378676
	1.020870	-3.357807	23915.334597			
HLA A*0203	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.028906
	0.671022	-3.357884	10688.242031			
HLA A*2603	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.344026
	0.985844	-3.358182	22081.382287			
HLA A*2902	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.283005
	0.924700	-3.358305	19186.927394			
HLA A*0212	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.371830
	1.013420	-3.358410	23541.279418			
HLA B*4402	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.358588
	1.000164	-3.358424	22834.334810			
HLA A*3201	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.245219
	0.886699	-3.358520	17588.089415			
HLA B*1801	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.430579
	1.071973	-3.358606	26951.251366			
HLA B*4002	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.619193
	1.260066	-3.359127	41609.571278			
HLA A*0301	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.353967
	0.994492	-3.359475	22592.637164			
HLA A*0202	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.397430
	1.037888	-3.359542	24970.661688			
HLA B*0801	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.113727
	0.754093	-3.359635	12993.536993			
HLA A*2403	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.337046
	0.977336	-3.359710	21729.310043			
HLA B*0803	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.377617
	1.017829	-3.359788	23857.055654			

HLA B*5101	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.215831
	0.856017	-3.359814	16437.331218			
HLA B*5101	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.195189
	0.835252	-3.359937	15674.320805			
HLA B*7301	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.521450
	1.161468	-3.359982	33223.850665			
HLA B*4402	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.435776
	1.075733	-3.360043	27275.705674			
HLA A*3002	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.255559
	0.895143	-3.360416	18011.867700			
HLA B*4601	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.378298
	1.017829	-3.360469	23894.513597			
HLA B*3901	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.360682
	1.000164	-3.360517	22944.666826			
HLA B*0801	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.363215
	1.002409	-3.360806	23078.867862			
HLA B*4801	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.381902
	1.020870	-3.361033	24093.633751			
HLA A*3301	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.597909
	1.236794	-3.361115	39619.524269			
HLA A*2403	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.380836
	1.019585	-3.361251	24034.530238			
HLA A*0219	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.436716
	1.075247	-3.361468	27334.793000			
HLA A*2902	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.363882
	1.002409	-3.361473	23114.353685			
HLA A*8001	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.399702
	1.037888	-3.361814	25101.634563			
HLA A*2403	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.375272
	1.013420	-3.361852	23728.596846			
HLA A*0212	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.445435
	1.083538	-3.361897	27889.114690			

HLA A*0212	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.399918
	1.037888	-3.362030	25114.131002			
HLA A*8001	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.429378
	1.067238	-3.362141	26876.848778			
HLA A*3201	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.400233
	1.037888	-3.362345	25132.343468			
HLA A*0101	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.361619
	0.999064	-3.362556	22994.247431			
HLA B*3501	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.434535
	1.071973	-3.362563	27197.905930			
HLA A*0216	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.249340
	0.886699	-3.362641	17755.776165			
HLA B*0702	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.376346
	1.013420	-3.362926	23787.334094			
HLA B*4501	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.609868
	1.246912	-3.362957	40725.660366			
HLA A*0203	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.317240
	0.954256	-3.362984	20760.594131			
HLA A*2402	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.363215
	1.000164	-3.363050	23078.867862			
HLA A*0301	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.363792
	1.000164	-3.363628	23109.602422			
HLA A*6801	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.610705
	1.246912	-3.363793	40804.170329			
HLA B*5401	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.456581
	1.092768	-3.363813	28614.139172			
HLA A*8001	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.439751
	1.075247	-3.364504	27526.520902			
HLA A*3301	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.568672
	1.203934	-3.364739	37040.109772			
HLA A*3101	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.229428
	0.864656	-3.364772	16960.075301			

HLA B*4402	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.402914
	1.037888	-3.365025	25287.957253			
HLA A*3301	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.544510
	1.179033	-3.365477	35035.648561			
HLA A*2403	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.367895
	1.002409	-3.365486	23328.922198			
HLA A*3001	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.945457
	0.579719	-3.365738	8819.770234			
HLA B*5801	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.353737
	0.987852	-3.365885	22580.662420			
HLA B*4403	1:9-17	9	VTAVVLLCC	1.208701	0.051365	-4.626091
	1.260066	-3.366025	42275.750783			
HLA A*0202	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.433330
	1.067238	-3.366093	27122.528957			
HLA B*4001	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.366318
	1.000164	-3.366154	23244.390898			
HLA A*0301	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.343599
	0.977336	-3.366263	22059.651662			
HLA B*1801	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.386007
	1.019585	-3.366422	24322.423977			
HLA A*1101	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.343808
	0.977336	-3.366472	22070.275503			
HLA B*5801	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.352414
	0.985844	-3.366570	22511.991601			
HLA A*1101	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.433824
	1.067238	-3.366586	27153.359740			
HLA B*4002	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.438640
	1.071973	-3.366667	27456.173948			
HLA B*1517	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.365888
	0.999064	-3.366825	23221.390113			
HLA B*5701	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.384675
	1.017829	-3.366846	24247.931508			

HLA A*8001	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.339454
	0.972498	-3.366956	21850.136721			
HLA A*3201	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.109714
	0.742712	-3.367002	12874.028518			
HLA B*7301	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.604067
	1.236794	-3.367273	40185.303866			
HLA B*4801	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.434526
	1.067238	-3.367288	27197.317386			
HLA B*3501	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.434597
	1.067238	-3.367359	27201.731778			
HLA B*2705	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.344907
	0.977336	-3.367571	22126.224444			
HLA B*3901	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.460638
	1.092768	-3.367871	28882.730352			
HLA A*0250	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.406184
	1.037888	-3.368296	25479.108712			
HLA A*0211	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.289081
	0.920569	-3.368512	19457.238410			
HLA A*0301	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.356375
	0.987852	-3.368523	22718.264407			
HLA A*6801	1:62-70	9	DQKSLENYI	1.150042	0.062507	-4.581181
	1.212549	-3.368632	38122.460511			
HLA B*1501	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.308845
	0.940065	-3.368780	20363.155054			
HLA A*2603	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.617086
	1.246912	-3.370174	41408.142865			
HLA B*4402	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.364951
	0.994492	-3.370459	23171.319738			
HLA A*3002	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.370651
	1.000164	-3.370486	23477.433585			
HLA A*0211	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.124751
	0.754093	-3.370658	13327.576095			

HLA B*2705	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.224228
	0.853458	-3.370771	16758.238458			
HLA A*8001	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.370153
	0.999064	-3.371089	23450.522833			
HLA B*1501	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.338272
	0.967178	-3.371094	21790.759516			
HLA A*2603	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.295906
	0.924700	-3.371206	19765.438527			
HLA B*4801	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.418122
	1.046875	-3.371247	26189.183891			
HLA B*4501	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.258012
	0.886699	-3.371313	18113.885187			
HLA B*4402	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.444450
	1.071973	-3.372478	27825.968814			
HLA B*0801	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.326779
	0.954256	-3.372523	21221.627502			
HLA A*8001	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.448388
	1.075733	-3.372655	28079.413406			
HLA A*0211	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.456195
	1.083538	-3.372657	28588.763342			
HLA B*1502	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.113276
	0.740601	-3.372675	12980.047630			
HLA B*4403	1:72-809		QTRDKFLSA	1.401913	-0.147149	-4.627649
	1.254764	-3.372885	42427.655867			
HLA B*1801	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.448181
	1.075247	-3.372934	28066.048815			
HLA A*3101	1:18-269		SGVATAAPK	0.424227	0.140104	-3.937300
	0.564331	-3.372969	8655.653437			
HLA B*0702	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.440679
	1.067238	-3.373442	27585.405388			
HLA B*4801	1:25-339		PKTYCEELK	0.921220	0.066632	-4.362608
	0.987852	-3.374757	23046.677970			

HLA B*3501	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.392830
	1.017829	-3.375001	24707.554333			
HLA B*4001	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.393109
	1.017829	-3.375280	24723.465604			
HLA B*1517	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.451370
	1.076055	-3.375315	28272.845984			
HLA B*4402	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.422412
	1.046875	-3.375537	26449.174672			
HLA B*0801	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.389129
	1.013420	-3.375709	24497.926098			
HLA A*0202	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.452143
	1.076055	-3.376088	28323.212318			
HLA B*4402	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.389804
	1.013420	-3.376384	24535.992057			
HLA B*7301	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.333129
	0.956718	-3.376411	21534.229894			
HLA B*3501	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.024950
	0.648272	-3.376677	10591.311639			
HLA B*4601	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.390102
	1.013420	-3.376682	24552.855448			
HLA A*0211	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.039601
	0.662917	-3.376684	10954.716313			
HLA A*2601	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.379236
	1.002409	-3.376827	23946.146704			
HLA B*5401	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.444067
	1.067238	-3.376830	27801.442358			
HLA A*0219	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.460495
	1.083538	-3.376957	28873.200530			
HLA B*5101	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.444246
	1.067238	-3.377008	27812.875315			
HLA B*5401	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.297673
	0.920569	-3.377104	19846.012794			

HLA A*2602	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.608632
	1.231508	-3.377124	40609.936089			
HLA A*3002	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.390553
	1.013420	-3.377133	24578.371717			
HLA B*1509	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.469952
	1.092768	-3.377184	29508.803761			
HLA A*0206	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.040118
	0.662917	-3.377201	10967.762111			
HLA A*3201	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.956984
	0.579719	-3.377265	9056.989094			
HLA B*2705	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.453569
	1.076055	-3.377514	28416.373036			
HLA A*6901	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.298183
	0.920569	-3.377614	19869.324621			
HLA A*2902	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.397282
	1.019585	-3.377698	24962.152562			
HLA B*4001	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.391270
	1.013420	-3.377850	24618.959905			
HLA A*0219	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.449882
	1.071973	-3.377910	28176.192347			
HLA B*2705	1:25-339		PKTYCEELK	0.921220	0.066632	-4.366316
	0.987852	-3.378464	23244.265149			
HLA B*3801	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.416759
	1.037888	-3.378871	26107.137940			
HLA A*0101	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.381421
	1.002409	-3.379012	24066.928066			
HLA A*0206	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.133167
	0.754093	-3.379074	13588.359433			
HLA A*6801	1:150-158	9	ADTDPLPVV	1.257750	0.027453	-4.664374
	1.285203	-3.379171	46171.484449			
HLA A*0101	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.347146
	0.967178	-3.379968	22240.593514			

HLA A*6801	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.617227
	1.236794	-3.380433	41421.585854			
HLA A*2501	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.418552
	1.037888	-3.380664	26215.124275			
HLA A*2603	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.612220
	1.231508	-3.380712	40946.800224			
HLA A*2602	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.400553
	1.019585	-3.380968	25150.841266			
HLA A*2602	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.237228
	0.856017	-3.381211	17267.444403			
HLA A*2601	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.400797
	1.019585	-3.381212	25164.995827			
HLA B*4601	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.301825
	0.920569	-3.381256	20036.635928			
HLA B*5301	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.402145
	1.020870	-3.381276	25243.261549			
HLA A*3101	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.189536
	0.808230	-3.381306	15471.622856			
HLA A*6801	1:94-102	9	NITSATYQS	1.243610	-0.899139	-3.725992
	0.344471	-3.381521	5320.983072			
HLA A*3002	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.061719
	0.680076	-3.381643	11527.076814			
HLA A*3001	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-3.834782
	0.452621	-3.382161	6835.691128			
HLA B*5301	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.429125
	1.046875	-3.382250	26861.150081			
HLA B*4001	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.401856
	1.019585	-3.382272	25226.469857			
HLA B*7301	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.561516
	1.179033	-3.382483	36434.744953			
HLA B*0801	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.339661
	0.956718	-3.382943	21860.541397			

HLA B*0702	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.360322
	0.977336	-3.382986	22925.683083			
HLA B*4402	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.400992
	1.017829	-3.383163	25176.297970			
HLA B*1517	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.173832
	0.790540	-3.383292	14922.167566			
HLA A*0203	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.377948
	0.994492	-3.383456	23875.260624			
HLA A*1101	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.459612
	1.076055	-3.383557	28814.528717			
HLA B*4402	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.237085
	0.853458	-3.383627	17261.747030			
HLA B*4402	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.360997
	0.977336	-3.383660	22961.306022			
HLA B*5801	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.356227
	0.972498	-3.383729	22710.522819			
HLA B*5101	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.467320
	1.083538	-3.383782	29330.548258			
HLA B*0803	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.476826
	1.092768	-3.384059	29979.625083			
HLA B*2705	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.338561
	0.954256	-3.384306	21805.264270			
HLA B*0801	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.361692
	0.977336	-3.384356	22998.104040			
HLA A*0211	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.452406
	1.067238	-3.385168	28340.378767			
HLA A*0202	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.127923
	0.742712	-3.385211	13425.268358			
HLA B*1501	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.340523
	0.954978	-3.385545	21903.987072			
HLA B*3501	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.387990
	1.002409	-3.385581	24433.732784			

HLA B*1501	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.371494
	0.985844	-3.385650	23523.074594			
HLA B*1509	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.363118
	0.977336	-3.385782	23073.749411			
HLA B*1801	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.342508
	0.956718	-3.385790	22004.347218			
HLA A*3001	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.176445
	0.790540	-3.385905	15012.206851			
HLA B*2705	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.403795
	1.017829	-3.385966	25339.311219			
HLA A*0206	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.453226
	1.067238	-3.385988	28393.937401			
HLA B*0802	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.461754
	1.075733	-3.386021	28957.045671			
HLA A*3201	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.461773
	1.075733	-3.386040	28958.298933			
HLA B*2705	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.453327
	1.067238	-3.386089	28400.543316			
HLA A*2603	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.424313
	1.037888	-3.386425	26565.185820			
HLA A*0219	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.381510
	0.994492	-3.387018	24071.876152			
HLA A*0201	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.381576
	0.994492	-3.387084	24075.522761			
HLA A*2902	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.341672
	0.954583	-3.387089	21962.009377			
HLA A*8001	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.387550
	1.000164	-3.387386	24409.026915			
HLA A*3301	1:35-43	9	TDTGQACQI	1.187370	0.059542	-4.634653
	1.246912	-3.387741	43117.428553			
HLA B*5701	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.407552
	1.019585	-3.387967	25559.457525			

HLA A*0101	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.373815
	0.985844	-3.387971	23649.141344			
HLA A*2301	1:33-419		KGDTGTGQAC	1.197565	-0.058691	-4.526866
	1.138874	-3.387992	33640.739108			
HLA A*2601	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.374100
	0.985844	-3.388255	23664.627059			
HLA A*2602	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.401725
	1.013420	-3.388305	25218.828560			
HLA A*3002	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.309052
	0.920569	-3.388483	20372.851654			
HLA A*0203	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.361119
	0.972498	-3.388621	22967.766273			
HLA A*2403	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.387731
	0.999064	-3.388668	24419.196893			
HLA B*4001	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.387966
	0.999064	-3.388903	24432.410982			
HLA B*1517	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.464271
	1.075247	-3.389023	29125.309530			
HLA B*4001	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.375061
	0.985844	-3.389216	23717.046441			
HLA A*0216	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.464494
	1.075247	-3.389246	29140.282023			
HLA B*3901	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.366920
	0.977336	-3.389584	23276.605092			
HLA A*3101	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.389996
	1.000164	-3.389832	24546.878906			
HLA B*1502	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.465800
	1.075733	-3.390067	29228.064984			
HLA B*4001	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.243630
	0.853458	-3.390173	17523.885747			
HLA B*4001	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.367568
	0.977336	-3.390232	23311.386035			

HLA B*4601	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.330550
	0.940065	-3.390485	21406.694473			
HLA A*3301	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.474049
	1.083538	-3.390511	29788.532323			
HLA A*0212	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.385018
	0.994492	-3.390526	24267.091152			
HLA B*4601	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.390835
	1.000164	-3.390671	24594.332850			
HLA B*4601	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.393380
	1.002409	-3.390971	24738.851779			
HLA B*0802	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.318687
	0.927533	-3.391154	20829.894046			
HLA A*0101	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.385753
	0.994492	-3.391261	24308.217313			
HLA B*0801	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.429204
	1.037888	-3.391316	26866.091274			
HLA B*4501	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.628281
	1.236794	-3.391487	42489.444093			
HLA A*3201	1:33-41	9	KGTDGTGQAC	1.197565	-0.058691	-4.530369
	1.138874	-3.391495	33913.187505			
HLA A*0219	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.429505
	1.037888	-3.391617	26884.701566			
HLA B*4601	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.319230
	0.927533	-3.391697	20855.941111			
HLA B*1503	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.331870
	0.940065	-3.391805	21471.877521			
HLA A*0201	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.239190
	0.847335	-3.391855	17345.622336			
HLA A*0101	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.346841
	0.954978	-3.391863	22224.957525			
HLA A*2301	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.459621
	1.067238	-3.392383	28815.152258			

HLA A*1101	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.279089
	0.886699	-3.392390	19014.672102			
HLA B*4501	1:132-140	9	FDWDQAYRK	1.061895	0.169613	-4.624111
	1.231508	-3.392603	42083.389645			
HLA B*5401	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.063815
	0.671022	-3.392793	11582.836548			
HLA B*0702	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.412410
	1.019585	-3.392826	25847.013346			
HLA A*3002	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.201871
	0.809025	-3.392846	15917.346358			
HLA B*4501	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.515792
	1.122935	-3.392857	32793.850021			
HLA B*1502	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.596939
	1.203934	-3.393005	39531.101809			
HLA A*3101	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.349811
	0.956718	-3.393092	22377.454805			
HLA B*3901	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.465354
	1.071973	-3.393381	29198.037507			
HLA A*2403	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.348427
	0.954978	-3.393449	22306.264213			
HLA B*1503	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.379410
	0.985844	-3.393565	23955.735027			
HLA B*4002	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.350311
	0.956718	-3.393593	22403.255352			
HLA B*5801	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.348234
	0.954583	-3.393651	22296.371105			
HLA B*0803	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.469865
	1.076055	-3.393810	29502.897696			
HLA A*2301	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.469482
	1.075247	-3.394234	29476.893156			
HLA B*1801	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.412178
	1.017829	-3.394349	25833.173935			

HLA B*1501	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.248139
	0.853458	-3.394681	17706.758934			
HLA B*0801	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.394991
	1.000164	-3.394827	24830.832782			
HLA B*5801	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.362059
	0.967178	-3.394881	23017.521315			
HLA A*2601	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.367387
	0.972498	-3.394889	23301.677432			
HLA B*1503	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.247942
	0.852998	-3.394944	17698.714268			
HLA B*1801	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.230283
	0.835252	-3.395031	16993.505980			
HLA B*5401	1:33-419		KGDTGTGQAC	1.197565	-0.058691	-4.533935
	1.138874	-3.395062	34192.836478			
HLA A*6901	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.381449
	0.985844	-3.395605	24068.490510			
HLA B*4501	1:62-709		DQKSLENYI	1.150042	0.062507	-4.608205
	1.212549	-3.395655	40569.971231			
HLA A*0216	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.143951
	0.748062	-3.395889	13930.001471			
HLA B*0702	1:8-16	9	LVTAVLLC	0.979168	0.067707	-4.443048
	1.046875	-3.396173	27736.244146			
HLA A*0211	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.488950
	1.092768	-3.396182	30828.297402			
HLA B*1501	1:82-909		TSSTPREAP	0.792178	0.117162	-4.305654
	0.909340	-3.396315	20214.102686			
HLA B*5801	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.353342
	0.956718	-3.396624	22560.149051			
HLA B*4801	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.103747
	0.706847	-3.396900	12698.334846			
HLA A*0206	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.016402
	0.619394	-3.397009	10384.900037			

HLA A*2603	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.137673
	0.740601	-3.397072	13730.088556			
HLA A*3101	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.244439
	0.847335	-3.397103	17556.528095			
HLA B*1801	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.480731
	1.083538	-3.397193	30250.394411			
HLA A*2601	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.396269
	0.999064	-3.397206	24904.017056			
HLA B*5801	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.351498
	0.954256	-3.397242	22464.544594			
HLA A*0206	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.435149
	1.037888	-3.397260	27236.335983			
HLA A*0301	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.364457
	0.967178	-3.397279	23145.010289			
HLA A*3002	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.464780
	1.067238	-3.397543	29159.521146			
HLA B*5301	1:202-210	9	NPCELLPEA	1.188654	-0.463299	-4.123045
	0.725355	-3.397691	13275.333640			
HLA A*6901	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-3.978049
	0.579719	-3.398331	9507.127698			
HLA B*4001	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.355059
	0.956718	-3.398341	22649.542713			
HLA B*4501	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.470367
	1.071973	-3.398395	29537.073460			
HLA B*5701	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.398804
	1.000164	-3.398640	25049.813650			
HLA A*0216	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.150591
	0.751912	-3.398679	14144.604445			
HLA A*0301	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.355480
	0.956718	-3.398762	22671.486477			
HLA A*8001	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.401643
	1.002409	-3.399234	25214.053925			

HLA A*3201	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.417109
	1.017829	-3.399280	26128.190695			
HLA A*2501	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.356645
	0.956718	-3.399927	22732.402683			
HLA B*0803	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.475290
	1.075247	-3.400042	29873.742566			
HLA A*0211	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.148124
	0.748062	-3.400062	14064.485435			
HLA A*0202	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.320766
	0.920569	-3.400198	20929.861529			
HLA B*4403	1:37-45	9	TGQACQIQM	1.304282	-0.067488	-4.637251
	1.236794	-3.400458	43376.188026			
HLA A*2601	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.377880
	0.977336	-3.400544	23871.515205			
HLA B*5401	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.484091
	1.083538	-3.400553	30485.323292			
HLA A*2501	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.418425
	1.017829	-3.400596	26207.467065			
HLA B*4801	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.418933
	1.017829	-3.401104	26238.109335			
HLA A*2601	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.395976
	0.994492	-3.401484	24887.181753			
HLA B*1517	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-3.874103
	0.472542	-3.401561	7483.476718			
HLA B*0702	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.387428
	0.985844	-3.401584	24402.161274			
HLA A*0203	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.322578
	0.920569	-3.402009	21017.342812			
HLA A*0101	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.255016
	0.852998	-3.402018	17989.372608			
HLA A*2602	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.104926
	0.702905	-3.402021	12732.867401			

HLA B*4801	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.415533
	1.013420	-3.402113	26033.516372			
HLA A*6802	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.396852
	0.994492	-3.402360	24937.452017			
HLA A*6801	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.415930
	1.013420	-3.402510	26057.328952			
HLA A*1101	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.211569
	0.809025	-3.402545	16276.811749			
HLA B*1501	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.357132
	0.954583	-3.402549	22757.873756			
HLA A*0301	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.357355
	0.954583	-3.402772	22769.572932			
HLA B*0803	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.423669
	1.020870	-3.402799	26525.837161			
HLA B*1517	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.470111
	1.067238	-3.402874	29519.661234			
HLA A*6901	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.091492
	0.688457	-3.403035	12345.021799			
HLA A*3002	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.422788
	1.019585	-3.403204	26472.078520			
HLA A*0101	1:25-339		PKTYCEELK	0.921220	0.066632	-4.391204
	0.987852	-3.403352	24615.230984			
HLA A*3201	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.416881
	1.013420	-3.403462	26114.483282			
HLA B*2705	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.487084
	1.083538	-3.403546	30696.159929			
HLA A*0301	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.343676
	0.940065	-3.403612	22063.590243			
HLA A*2602	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.496421
	1.092768	-3.403653	31363.238620			
HLA B*1509	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.331677
	0.927533	-3.404144	21462.354474			

HLA B*0803	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.488177
	1.083538	-3.404639	30773.476349			
HLA B*1509	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.156577
	0.751912	-3.404665	14340.929297			
HLA A*3101	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.325555
	0.920569	-3.404986	21161.897452			
HLA B*3501	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.005801
	0.600517	-3.405284	10134.479398			
HLA B*0803	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.404392
	0.999064	-3.405328	25374.154200			
HLA B*0801	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.391324
	0.985844	-3.405480	24622.023370			
HLA A*2501	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.452807
	1.046875	-3.405933	28366.608328			
HLA B*5101	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.408517
	1.002409	-3.406109	25616.351297			
HLA A*0203	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.158556
	0.751912	-3.406643	14406.403054			
HLA B*5101	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.482535
	1.075733	-3.406802	30376.340053			
HLA B*0801	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.379311
	0.972498	-3.406813	23950.292535			
HLA B*1517	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.424884
	1.017829	-3.407055	26600.131460			
HLA B*4402	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.426827
	1.019585	-3.407242	26719.406489			
HLA A*6801	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.530282
	1.122935	-3.407347	33906.399921			
HLA A*0101	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.379877
	0.972498	-3.407379	23981.538891			
HLA A*2603	1:3-11	9	IKIFMLVTA	1.316552	-0.112618	-4.611482
	1.203934	-3.407549	40877.302726			

HLA A*0201	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.395471
	0.987852	-3.407619	24858.251648		
HLA A*2603	1:142-150 9	ITYDTLWQA	1.233555	-0.212685	-4.428765
	1.020870	-3.407895	26838.925955		
HLA B*0803	1:103-111 9	AIPPRGTQA	1.171695	-0.095962	-4.484044
	1.075733	-3.408311	30482.025026		
HLA B*3801	1:110-118 9	QAVVLKVYQ	1.073710	0.019058	-4.501136
	1.092768	-3.408369	31705.625002		
HLA A*2403	1:180-188 9	AGLDPVNYQ	1.025360	-0.030868	-4.402933
	0.994492	-3.408441	25289.051717		
HLA A*8001	1:116-124 9	VYQNAGGTH	1.000005	-0.059940	-4.348601
	0.940065	-3.408536	22315.195907		
HLA A*3001	1:169-177 9	QTGQQVSIA	0.950594	-0.262137	-4.097098
	0.688457	-3.408641	12505.404165		
HLA A*8001	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.428810
	1.019585	-3.409225	26841.684814		
HLA B*1801	1:123-131 9	THPTTTYKA	1.324444	-0.257206	-4.476483
	1.067238	-3.409246	29955.955211		
HLA B*5301	1:210-218 9	AAGPTQVLV	0.899889	0.077447	-4.386641
	0.977336	-3.409305	24357.976973		
HLA A*3301	1:56-64 9	LPSYYPDQK	0.981412	0.093835	-4.484645
	1.075247	-3.409398	30524.269793		
HLA B*4001	1:107-115 9	RGTQAVVLK	0.840868	0.114110	-4.364389
	0.954978	-3.409411	23141.379428		
HLA B*0802	1:123-131 9	THPTTTYKA	1.324444	-0.257206	-4.476810
	1.067238	-3.409572	29978.489800		
HLA A*0201	1:63-71 9	QKSLENYIA	1.220826	-0.266570	-4.363910
	0.954256	-3.409654	23115.854287		
HLA B*5801	1:116-124 9	VYQNAGGTH	1.000005	-0.059940	-4.349750
	0.940065	-3.409685	22374.307478		
HLA A*6901	1:141-149 9	PITYDTLWQ	1.144380	-0.171882	-4.382304
	0.972498	-3.409806	24115.932869		

HLA B*5701	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.404474
	0.994492	-3.409982	25378.959152			
HLA A*6901	1:82-90 9	TSSTPREAP	0.792178	0.117162	-4.319437	
	0.909340	-3.410097	20865.872368			
HLA B*3901	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.448000
	1.037888	-3.410112	28054.360015			
HLA A*8001	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.219022
	0.808230	-3.410792	16558.534874			
HLA A*2601	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.398997	
	0.987852	-3.411145	25060.928486			
HLA B*2705	1:13-21 9	VLLCCSGVA	1.166577	-0.167513	-4.410235	
	0.999064	-3.411171	25717.855034			
HLA A*0219	1:81-89 9	ATSSTPREA	0.999596	-0.112897	-4.298023	
	0.886699	-3.411325	19862.016588			
HLA A*8001	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.388690
	0.977336	-3.411354	24473.155321			
HLA B*4501	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-3.931252
	0.519628	-3.411624	8535.958304			
HLA B*2705	1:138-146	9	YRKPIYDT	0.544186	-0.159948	-3.796035
	0.384238	-3.411797	6252.226807			
HLA A*0301	1:63-71 9	QKSLNYIA	1.220826	-0.266570	-4.366400	
	0.954256	-3.412145	23248.792550			
HLA B*4801	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.398107
	0.985844	-3.412262	25009.597503			
HLA B*0801	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.379792
	0.967178	-3.412615	23976.868797			
HLA B*3801	1:33-41 9	KGTDTGQAC	1.197565	-0.058691	-4.551498	
	1.138874	-3.412624	35603.896487			
HLA A*3001	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.266110
	0.853458	-3.412653	18454.840050			
HLA B*1501	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.101172
	0.688457	-3.412715	12623.266160			

HLA B*1503	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.120339
	0.707433	-3.412905	13192.856482			
HLA A*6901	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-3.979445
	0.566374	-3.413071	9537.727747			
HLA B*3901	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.488903
	1.075733	-3.413169	30824.962029			
HLA A*0212	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.299877
	0.886699	-3.413178	19946.976863			
HLA B*5101	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.413693
	1.000164	-3.413529	25923.473109			
HLA A*0212	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.193413
	0.779687	-3.413725	15610.345688			
HLA B*1503	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.413938
	1.000164	-3.413773	25938.062496			
HLA B*4801	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.433380
	1.019585	-3.413795	27125.610459			
HLA B*0801	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.217951
	0.804086	-3.413865	16517.736811			
HLA B*4402	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.368454
	0.954256	-3.414198	23358.978782			
HLA A*3301	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.537394
	1.122935	-3.414458	34466.213289			
HLA A*0206	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-3.700693
	0.286028	-3.414665	5019.871762			
HLA A*3101	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.387231
	0.972498	-3.414733	24391.074702			
HLA A*0101	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.371503
	0.956718	-3.414785	23523.583628			
HLA B*4801	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.370077
	0.954978	-3.415099	23446.463513			
HLA A*2501	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.428873
	1.013420	-3.415453	26845.605785			

HLA B*1501	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.269378
	0.852998	-3.416381	18594.239440			
HLA A*0201	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.402310
	0.985844	-3.416466	25252.822787			
HLA A*2402	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.463361
	1.046875	-3.416487	29064.395780			
HLA B*0801	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.196288
	0.779687	-3.416601	15714.055771			
HLA B*4601	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.402456
	0.985844	-3.416611	25261.294335			
HLA A*6901	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.370893
	0.954256	-3.416637	23490.519293			
HLA A*3002	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.492725
	1.076055	-3.416671	31097.477509			
HLA A*2301	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.454574
	1.037888	-3.416686	28482.245464			
HLA B*5701	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.415841
	0.999064	-3.416777	26051.972747			
HLA B*5701	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.419236
	1.002409	-3.416827	26256.426664			
HLA B*1801	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.417020
	1.000164	-3.416856	26122.819924			
HLA B*3801	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.500615
	1.083538	-3.417077	31667.569549			
HLA A*3201	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.207735
	0.790540	-3.417195	16133.737297			
HLA A*6901	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.405106
	0.987852	-3.417254	25415.919028			
HLA B*0802	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.438130
	1.020870	-3.417260	27423.960796			
HLA B*3501	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.455159
	1.037888	-3.417271	28520.638679			

HLA B*5701	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.372347
	0.954978	-3.417369	23569.314354			
HLA B*1501	1:11-199		AVVLLCCSG	0.891360	-0.444728	-3.864132
	0.446632	-3.417500	7313.616731			
HLA A*0216	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.119559
	0.701666	-3.417893	13169.182281			
HLA A*0206	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.304686
	0.886699	-3.417988	20169.098165			
HLA B*5801	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.338599
	0.920569	-3.418030	21807.151776			
HLA A*0216	1:153-161	9	DPLPVVFPV	0.780193	-0.026100	-4.172178
	0.754093	-3.418085	14865.443654			
HLA B*7301	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.372462
	0.954256	-3.418206	23575.563044			
HLA A*3201	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.420697
	1.002409	-3.418288	26344.927071			
HLA B*1517	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.373268
	0.954978	-3.418290	23619.350283			
HLA A*0216	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.391432
	0.972498	-3.418934	24628.151443			
HLA B*1501	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.205573
	0.786460	-3.419114	16053.637602			
HLA B*1509	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.495124
	1.075733	-3.419391	31269.719578			
HLA B*3901	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.466336
	1.046875	-3.419461	29264.138722			
HLA A*0101	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.373862
	0.954256	-3.419607	23651.700267			
HLA A*2301	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.495808
	1.076055	-3.419753	31318.985571			
HLA B*0803	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.487155
	1.067238	-3.419917	30701.142218			

HLA B*0802	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.466928
	1.046875	-3.420053	29304.061497			
HLA B*4801	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.397679
	0.977336	-3.420343	24984.985176			
HLA A*2403	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.267734
	0.847335	-3.420399	18523.957658			
HLA A*0101	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.375531
	0.954583	-3.420948	23742.721647			
HLA B*0803	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.468084
	1.046875	-3.421209	29382.163000			
HLA A*0250	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.393744
	0.972498	-3.421246	24759.604818			
HLA B*4403	1:96-104	9	TSATYQSAI	0.928477	0.250556	-4.600644
	1.179033	-3.421611	39869.799990			
HLA B*1801	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.277942
	0.856017	-3.421925	18964.539080			
HLA B*7301	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.014894
	0.592876	-3.422018	10348.894297			
HLA A*0206	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.342610
	0.920569	-3.422041	22009.466580			
HLA A*6901	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.377029
	0.954978	-3.422052	23824.811457			
HLA B*4402	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.309355
	0.886699	-3.422656	20387.074334			
HLA A*0206	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.497908
	1.075247	-3.422661	31470.824878			
HLA B*1801	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.425365
	1.002409	-3.422957	26629.648096			
HLA B*1501	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.377236
	0.954256	-3.422980	23836.156441			
HLA A*1101	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.422283
	0.999064	-3.423219	26441.306052			

HLA B*5101	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.443066
	1.019585	-3.423482	27737.444572		
HLA A*0250	1:81-89 9	ATSSTPREA	0.999596	-0.112897	-4.310877
	0.886699	-3.424179	20458.668846		
HLA B*4002	1:172-180 9	QQVSIAPNA	1.175074	-0.172665	-4.426745
	1.002409	-3.424336	26714.347752		
HLA B*0802	1:189-197 9	NFAVTNDGV	0.789539	0.210625	-4.424583
	1.000164	-3.424419	26581.718154		
HLA A*0250	1:110-118 9	QAVVLKVYQ	1.073710	0.019058	-4.517327
	1.092768	-3.424559	32909.904334		
HLA A*8001	1:21-29 9	ATAAPKTYC	0.926919	0.086501	-4.438168
	1.013420	-3.424748	27426.334668		
HLA A*3101	1:111-119 9	AVVLKVYQN	1.224563	-0.434023	-4.215455
	0.790540	-3.424915	16423.109512		
HLA B*1501	1:141-149 9	PITYDTLWQ	1.144380	-0.171882	-4.397543
	0.972498	-3.425045	24977.146778		
HLA B*1801	1:103-111 9	AIPPRGTQA	1.171695	-0.095962	-4.500923
	1.075733	-3.425189	31690.020167		
HLA B*3801	1:56-64 9	LPSYYPDQK	0.981412	0.093835	-4.500481
	1.075247	-3.425233	31657.805926		
HLA B*3501	1:105-113 9	PPRGTQAVV	0.903475	-0.180338	-4.148425
	0.723137	-3.425288	14074.227983		
HLA A*3101	1:211-219 9	AGPTQVLVP	0.915670	0.051508	-4.392576
	0.967178	-3.425398	24693.122715		
HLA A*0201	1:141-149 9	PITYDTLWQ	1.144380	-0.171882	-4.398043
	0.972498	-3.425545	25005.944693		
HLA B*1517	1:149-157 9	QADTDPLPV	0.679726	0.062986	-4.168297
	0.742712	-3.425584	14733.181054		
HLA A*0219	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.290279
	0.864656	-3.425624	19510.995902		
HLA A*0301	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.290808
	0.864656	-3.426152	19534.759635		

HLA B*0702	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.398668
	0.972498	-3.426170	25041.954914			
HLA B*4801	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.426348
	1.000164	-3.426183	26689.934754			
HLA A*8001	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.412098
	0.985844	-3.426254	25828.422715			
HLA B*0801	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.420814
	0.994492	-3.426323	26352.054192			
HLA A*0216	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.383131
	0.956718	-3.426413	24161.900135			
HLA B*3801	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.502208
	1.075733	-3.426474	31783.936461			
HLA B*4801	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.425727
	0.999064	-3.426664	26651.843110			
HLA B*5801	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.351394
	0.924700	-3.426694	22459.197880			
HLA A*2601	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.393880
	0.967178	-3.426702	24767.374947			
HLA A*6901	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.280289
	0.853458	-3.426832	19067.310000			
HLA A*6802	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.280334
	0.853458	-3.426876	19069.269989			
HLA A*2603	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.519657
	1.092768	-3.426890	33086.993717			
HLA B*5801	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.354575
	0.927533	-3.427042	22624.315281			
HLA A*0301	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.313922
	0.886699	-3.427223	20602.613022			
HLA B*5301	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.446941
	1.019585	-3.427356	27985.994739			
HLA A*6901	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.394688
	0.967178	-3.427510	24813.509993			

HLA A*0203	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.194893
	0.767355	-3.427538	15663.640107			
HLA B*3501	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.381938
	0.954256	-3.427682	24095.588989			
HLA B*5701	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.355529
	0.927533	-3.427996	22674.062279			
HLA A*0219	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.207744
	0.779687	-3.428057	16134.086427			
HLA B*2705	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.447730
	1.019585	-3.428146	28036.911781			
HLA A*2601	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.384914
	0.956718	-3.428196	24261.315420			
HLA B*5301	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.281340
	0.852998	-3.428342	19113.474755			
HLA A*0201	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.395619
	0.967178	-3.428441	24866.725357			
HLA B*4801	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.422950
	0.994492	-3.428458	26481.961924			
HLA B*4601	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.383171
	0.954583	-3.428588	24164.122361			
HLA B*3501	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.414541
	0.985844	-3.428697	25974.150343			
HLA B*2705	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.369521
	0.940065	-3.429456	23416.421041			
HLA A*2601	1:154-162	9	PLPVVFPIV	1.026322	-0.131179	-4.324629
	0.895143	-3.429486	21116.838983			
HLA A*2301	1:154-162	9	PLPVVFPIV	1.026322	-0.131179	-4.324866
	0.895143	-3.429723	21128.380352			
HLA B*3501	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.239047
	0.809025	-3.430022	17339.899169			
HLA B*1501	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.239166
	0.809025	-3.430142	17344.683983			

HLA B*0702	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.386972
	0.956718	-3.430254	24376.564189			
HLA B*0802	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.407624
	0.977336	-3.430288	25563.744373			
HLA B*5101	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.502546
	1.071973	-3.430573	31808.706559			
HLA A*0203	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-3.660004
	0.229395	-3.430609	4570.926538			
HLA B*4002	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.592099
	1.161468	-3.430631	39092.998248			
HLA B*1801	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.182595
	0.751912	-3.430683	15226.338890			
HLA A*2301	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.523501
	1.092768	-3.430733	33381.132486			
HLA B*1509	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.317454
	0.886699	-3.430755	20770.817086			
HLA B*4601	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.387614
	0.956718	-3.430896	24412.592529			
HLA A*0216	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.416877
	0.985844	-3.431033	26114.200731			
HLA B*7301	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.449027
	1.017829	-3.431198	28120.762393			
HLA A*0101	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.352026
	0.920569	-3.431457	22491.905650			
HLA B*0802	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.444901
	1.013420	-3.431482	27854.886627			
HLA B*4601	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.398920
	0.967178	-3.431742	25056.454850			
HLA A*3201	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.409239
	0.977336	-3.431902	25658.931203			
HLA B*3901	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.451635
	1.019585	-3.432051	28290.134953			

HLA B*5701	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.386752
	0.954583	-3.432169	24364.171136			
HLA B*0702	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.426782
	0.994492	-3.432290	26716.660199			
HLA A*3002	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.450249
	1.017829	-3.432420	28199.981476			
HLA A*0101	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.341886
	0.909340	-3.432546	21972.823934			
HLA A*2402	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.507821
	1.075247	-3.432573	32197.385210			
HLA A*0219	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.389404
	0.956718	-3.432686	24513.437141			
HLA A*3001	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.270682
	0.837899	-3.432783	18650.152326			
HLA B*2705	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.419034
	0.985844	-3.433189	26244.213691			
HLA B*5401	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.297958
	0.864656	-3.433302	19859.008179			
HLA B*5701	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.421169
	0.987852	-3.433318	26373.589802			
HLA B*5701	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.390111
	0.956718	-3.433393	24553.386767			
HLA B*4601	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.421571
	0.987852	-3.433719	26397.999062			
HLA B*4601	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.406252
	0.972498	-3.433754	25483.106361			
HLA A*2902	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.281363
	0.847335	-3.434028	19114.508800			
HLA A*0203	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.287575
	0.853458	-3.434117	19389.882640			
HLA A*0212	1:63-71	9	QKSLHENYA	1.220826	-0.266570	-4.388605
	0.954256	-3.434350	24468.389491			

HLA A*0201	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.389353
	0.954978	-3.434375	24510.519785			
HLA A*6801	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.407343
	0.972498	-3.434845	25547.154116			
HLA A*2601	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.175857
	0.740601	-3.435256	14991.916981			
HLA B*4001	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.429853
	0.994492	-3.435361	26906.235788			
HLA A*2501	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.437921
	1.002409	-3.435513	27410.759882			
HLA B*0702	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.375664
	0.940065	-3.435600	23750.044169			
HLA B*4801	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.390288
	0.954583	-3.435705	24563.351121			
HLA A*2501	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.408369
	0.972498	-3.435871	25607.622142			
HLA A*6901	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.376123
	0.940065	-3.436058	23775.111985			
HLA B*3801	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.438494
	1.002409	-3.436086	27446.966331			
HLA A*3101	1:82-909		TSSTPREAP	0.792178	0.117162	-4.345436
	0.909340	-3.436096	22153.173437			
HLA A*0301	1:154-162	9	PLPVVFPIV	1.026322	-0.131179	-4.331269
	0.895143	-3.436126	21442.161021			
HLA B*4402	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.435229
	0.999064	-3.436165	27241.346193			
HLA A*0301	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.357059
	0.920569	-3.436490	22754.057431			
HLA A*3201	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.190598
	0.754093	-3.436505	15509.501442			
HLA B*1503	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.403684
	0.967178	-3.436506	25332.869143			

HLA B*3501	1:220-228	9	RSAIDSM LA	1.010961	-0.163626	-4.284446
	0.847335	-3.437110	19250.661895			
HLA A*2402	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.509219
	1.071973	-3.437246	32301.191841			
HLA A*0250	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.439655
	1.002409	-3.437246	27520.416046			
HLA B*1501	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.425102
	0.987852	-3.437251	26613.517877			
HLA B*4402	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.425325
	0.987852	-3.437474	26627.199130			
HLA B*3501	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.450930
	1.013420	-3.437510	28244.258243			
HLA A*0301	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.365174
	0.927533	-3.437641	23183.231455			
HLA B*1503	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.139388
	0.701666	-3.437723	13784.418894			
HLA B*4001	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.425626
	0.987852	-3.437774	26645.643940			
HLA B*5801	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.324728
	0.886699	-3.438029	21121.637598			
HLA A*0201	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.393058
	0.954583	-3.438475	24720.523253			
HLA A*0212	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-3.826136
	0.387379	-3.438758	6700.949207			
HLA B*0802	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.424729
	0.985844	-3.438885	26590.635507			
HLA A*6901	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.303636
	0.864656	-3.438981	20120.383764			
HLA B*0702	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.426975
	0.987852	-3.439123	26728.514630			
HLA B*5801	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.348469
	0.909340	-3.439130	22308.436458			

HLA A*3101	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.325923
	0.886699	-3.439225	21179.879000			
HLA A*2601	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.394399
	0.954978	-3.439421	24797.004169			
HLA A*3001	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.295561
	0.856017	-3.439544	19749.726237			
HLA B*4002	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.191524
	0.751912	-3.439611	15542.595145			
HLA B*5701	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.425734
	0.985844	-3.439890	26652.275664			
HLA A*2501	1:13-219	9	VLLCCSGVA	1.166577	-0.167513	-4.438995
	0.999064	-3.439931	27478.611875			
HLA B*5301	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.163170
	0.723137	-3.440033	14560.287472			
HLA A*2403	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.425892
	0.985844	-3.440048	26661.937868			
HLA A*3001	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.207552
	0.767355	-3.440197	16126.930758			
HLA B*0702	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.442667
	1.002409	-3.440258	27711.946694			
HLA A*6802	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.244676
	0.804086	-3.440590	17566.123582			
HLA A*6901	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.365374
	0.924700	-3.440674	23193.894497			
HLA A*2501	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.250000
	0.809025	-3.440975	17782.788647			
HLA A*3001	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.245376
	0.804086	-3.441290	17594.465595			
HLA B*4001	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.381738
	0.940065	-3.441673	24084.511407			
HLA B*0702	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.362256
	0.920569	-3.441687	23027.983560			

HLA A*0206	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.295209
	0.853458	-3.441751	19733.706163			
HLA B*1517	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.444413
	1.002409	-3.442004	27823.560351			
HLA A*6802	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.414769
	0.972498	-3.442271	25987.784095			
HLA A*2601	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.396876
	0.954583	-3.442293	24938.801142			
HLA A*2601	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.396791
	0.954256	-3.442535	24933.944634			
HLA A*3002	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.145328
	0.702788	-3.442540	13974.232365			
HLA A*3001	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.156258
	0.713674	-3.442584	14330.381912			
HLA A*1101	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.444995
	1.002409	-3.442587	27860.914954			
HLA A*0301	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.251818
	0.809025	-3.442794	17857.405815			
HLA A*3201	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.290143
	0.847335	-3.442808	19504.874827			
HLA B*3801	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.370552
	0.927533	-3.443019	23472.099758			
HLA A*2602	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.519126
	1.076055	-3.443072	33046.565122			
HLA B*2705	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.456581
	1.013420	-3.443161	28614.139172			
HLA B*4001	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.370827
	0.927533	-3.443294	23486.961291			
HLA B*4001	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.415871
	0.972498	-3.443373	26053.805009			
HLA B*3901	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.464308
	1.020870	-3.443438	29127.830674			

HLA B*0801	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.398469
	0.954978	-3.443491	25030.442254			
HLA A*0206	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.398107
	0.954256	-3.443851	25009.597503			
HLA A*2602	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.516253
	1.071973	-3.444280	32828.641037			
HLA A*0301	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.354338
	0.909340	-3.444999	22611.956759			
HLA A*2902	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.432872
	0.987852	-3.445020	27093.931718			
HLA A*0202	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-3.832485
	0.387379	-3.445106	6799.619873			
HLA B*1509	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.458550
	1.013420	-3.445130	28744.155494			
HLA A*0101	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.372859
	0.927533	-3.445326	23597.127360			
HLA A*2601	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.385483
	0.940065	-3.445418	24293.098969			
HLA A*6802	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.400057
	0.954583	-3.445474	25122.148297			
HLA B*1517	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.366635
	0.920569	-3.446067	23261.373292			
HLA A*0219	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.431930
	0.985844	-3.446086	27035.218784			
HLA A*2301	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.529760
	1.083538	-3.446222	33865.702934			
HLA A*3001	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.281537
	0.835252	-3.446285	19122.162478			
HLA B*5101	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.484330
	1.037888	-3.446442	30502.150001			
HLA B*4501	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.607935
	1.161468	-3.446467	40544.738990			

HLA B*4001	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.223190
	0.776623	-3.446567	16718.214515			
HLA B*3501	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.403308
	0.956718	-3.446590	25310.950948			
HLA B*3501	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.205108
	0.758478	-3.446630	16036.450826			
HLA B*4601	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.401650
	0.954978	-3.446672	25214.463144			
HLA A*2501	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.447364
	1.000164	-3.447199	28013.260215			
HLA A*2603	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.441748
	0.994492	-3.447256	27653.390490			
HLA B*3901	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.446346
	0.999064	-3.447283	27947.716455			
HLA B*0702	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.300749
	0.853458	-3.447291	19987.052023			
HLA A*6901	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.066799
	0.619394	-3.447405	11662.691121			
HLA A*2602	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.285397
	0.837899	-3.447498	19292.886433			
HLA A*1101	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.435372
	0.987852	-3.447520	27250.337409			
HLA A*2603	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.136118
	0.688457	-3.447661	13681.004296			
HLA A*2501	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.442559
	0.994492	-3.448067	27705.051298			
HLA A*8001	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.404814
	0.956718	-3.448096	25398.875079			
HLA B*0802	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.403085
	0.954978	-3.448107	25297.945994			
HLA A*2301	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.403454
	0.954978	-3.448476	25319.441997			

HLA A*0203	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.415695
	0.967178	-3.448517	26043.236038			
HLA B*1509	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.402850
	0.954256	-3.448595	25284.263787			
HLA A*2402	1:33-419		KGDTGQAC	1.197565	-0.058691	-4.587633
	1.138874	-3.448759	38693.018326			
HLA A*0206	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.129262
	0.680076	-3.449186	13466.730905			
HLA A*0219	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.403445
	0.954256	-3.449189	25318.894102			
HLA A*1101	1:82-909		TSSTPREAP	0.792178	0.117162	-4.358645
	0.909340	-3.449305	22837.299752			
HLA A*2402	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.487279
	1.037888	-3.449391	30709.946238			
HLA B*5701	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.422316
	0.972498	-3.449818	26443.308752			
HLA A*3201	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.526055
	1.076055	-3.450000	33578.010195			
HLA B*3501	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.405197
	0.954978	-3.450219	25421.281988			
HLA B*0801	1:25-339		PKTYCEELK	0.921220	0.066632	-4.438205
	0.987852	-3.450354	27428.708746			
HLA A*8001	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.405066
	0.954583	-3.450483	25413.581681			
HLA A*2602	1:1-9	9	VRIKIFMLV	0.881917	0.241018	-4.573554
	1.122935	-3.450619	37458.854716			
HLA A*8001	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.445341
	0.994492	-3.450849	27883.080262			
HLA B*7301	1:33-419		KGDTGQAC	1.197565	-0.058691	-4.589843
	1.138874	-3.450970	38890.495317			
HLA B*0802	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.470746
	1.019585	-3.451161	29562.811226			

HLA B*0702	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.451339
	1.000164	-3.451175	28270.857666			
HLA B*4001	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.418585
	0.967178	-3.451407	26217.109844			
HLA A*2603	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.527634
	1.076055	-3.451579	33700.303381			
HLA A*3101	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.405898
	0.954256	-3.451642	25462.297884			
HLA B*4402	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.437688
	0.985844	-3.451844	27396.083184			
HLA A*0201	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.131931
	0.680076	-3.451855	13549.747338			
HLA A*2501	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.219243
	0.767355	-3.451888	16566.957520			
HLA A*3201	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.139544
	0.687624	-3.451919	13789.341537			
HLA B*1502	1:1-9	9	VRKIFMLV	0.881917	0.241018	-4.575021
	1.122935	-3.452085	37585.520902			
HLA A*0203	1:25-339		PKTYCEELK	0.921220	0.066632	-4.440031
	0.987852	-3.452179	27544.247543			
HLA A*0212	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.228857
	0.776623	-3.452234	16937.794182			
HLA A*3001	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.238715
	0.786460	-3.452256	17326.677435			
HLA A*1101	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.242820
	0.790540	-3.452280	17491.209464			
HLA A*0201	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.372911
	0.920569	-3.452342	23599.936000			
HLA B*4001	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.406598
	0.954256	-3.452342	25503.379956			
HLA B*5401	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.454802
	1.002409	-3.452394	28497.195708			

HLA A*2501	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.472350
	1.019585	-3.452766	29672.246517		
HLA A*0203	1:160-168 9	PIVQGELSK	0.947962	0.037882	-4.439108
	0.985844	-3.453263	27485.748301		
HLA A*0216	1:185-193 9	VNYQNFAVT	1.248328	-0.327759	-4.373862
	0.920569	-3.453294	23651.700267		
HLA A*8001	1:68-76 9	NYIAQTRDK	0.633507	0.291193	-4.378084
	0.924700	-3.453384	23882.753225		
HLA A*2403	1:63-71 9	QKSLENYIA	1.220826	-0.266570	-4.407765
	0.954256	-3.453510	25572.043541		
HLA A*3101	1:95-103 9	ITSATYQSA	0.951011	-0.171324	-4.233337
	0.779687	-3.453650	17113.440104		
HLA A*2402	1:210-218 9	AAGPTQVLV	0.899889	0.077447	-4.431145
	0.977336	-3.453809	26986.412874		
HLA B*0803	1:172-180 9	QQVSIAPNA	1.175074	-0.172665	-4.456325
	1.002409	-3.453916	28597.271020		
HLA B*3501	1:180-188 9	AGLDPVNYQ	1.025360	-0.030868	-4.448459
	0.994492	-3.453967	28083.970972		
HLA B*4402	1:155-163 9	LPVVFPIVQ	1.161225	-0.206642	-4.408696
	0.954583	-3.454113	25626.885665		
HLA A*0202	1:94-102 9	NITSATYQS	1.243610	-0.899139	-3.798605
	0.344471	-3.454134	6289.339820		
HLA A*0202	1:113-121 9	VLKVYQNAG	0.952015	-0.550401	-3.855853
	0.401614	-3.454238	7175.507329		
HLA A*6802	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.442108
	0.987852	-3.454256	27676.289037		
HLA B*5101	1:13-21 9	VLLCCSGVA	1.166577	-0.167513	-4.453369
	0.999064	-3.454305	28403.309039		
HLA A*3101	1:218-226 9	VPRSAIDSM	0.858689	0.068844	-4.381928
	0.927533	-3.454395	24095.067577		
HLA B*5701	1:63-71 9	QKSLENYIA	1.220826	-0.266570	-4.408825
	0.954256	-3.454569	25634.511923		

HLA A*2403	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.382201
	0.927533	-3.454668	24110.193113			
HLA B*1501	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.349902
	0.895143	-3.454759	22382.176626			
HLA B*5701	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.422015
	0.967178	-3.454837	26425.004003			
HLA B*1801	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.454135
	0.999064	-3.455071	28453.445991			
HLA B*3801	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.527265
	1.071973	-3.455292	33671.692094			
HLA B*1509	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.380695
	0.924700	-3.455995	24026.730055			
HLA A*0206	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.383949
	0.927533	-3.456416	24207.431175			
HLA B*2705	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.456719
	1.000164	-3.456555	28623.273789			
HLA A*0212	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.444455
	0.987852	-3.456603	27826.269886			
HLA B*4001	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.377241
	0.920569	-3.456672	23836.414344			
HLA A*0211	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.531924
	1.075247	-3.456676	34034.860130			
HLA A*2301	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.455754
	0.999064	-3.456690	28559.701659			
HLA B*4801	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.429247
	0.972498	-3.456749	26868.707568			
HLA B*4801	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.411012
	0.954256	-3.456757	25763.948567			
HLA B*4001	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.366144
	0.909340	-3.456805	23235.087292			
HLA A*3001	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.232116
	0.775271	-3.456845	17065.365213			

HLA B*1501	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.197637
	0.740601	-3.457036	15762.928099			
HLA B*0702	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.344132
	0.886699	-3.457433	22086.758544			
HLA B*4402	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.429952
	0.972498	-3.457454	26912.349992			
HLA A*2902	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.344466
	0.886699	-3.457767	22103.732205			
HLA B*4601	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.412126
	0.954256	-3.457870	25830.099516			
HLA A*8001	1:25-339		PKTYCEELK	0.921220	0.066632	-4.445775
	0.987852	-3.457924	27911.000440			
HLA A*0203	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.385537
	0.927533	-3.458004	24296.121885			
HLA A*0250	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.039451
	0.581216	-3.458234	10950.924086			
HLA B*1503	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.383072
	0.924700	-3.458372	24158.632526			
HLA B*0803	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.444349
	0.985844	-3.458505	27819.496544			
HLA A*0219	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.386096
	0.927533	-3.458563	24327.424593			
HLA A*2601	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.386110
	0.927533	-3.458577	24328.214257			
HLA B*1509	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.478252
	1.019585	-3.458668	30078.234075			
HLA A*1101	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.426094
	0.967178	-3.458916	26674.345233			
HLA A*2501	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.199596
	0.740601	-3.458996	15834.208710			
HLA A*0201	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.399476
	0.940065	-3.459412	25088.601430			

HLA A*0101	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.354714
	0.895143	-3.459571	22631.537741			
HLA A*0101	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.399690
	0.940065	-3.459626	25100.955587			
HLA A*1101	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.479465
	1.019585	-3.459880	30162.314851			
HLA B*5301	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.202669
	0.742712	-3.459957	15946.651068			
HLA B*0801	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.346756
	0.886699	-3.460058	22220.629502			
HLA B*4001	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.384825
	0.924700	-3.460125	24256.328393			
HLA B*5301	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.599152
	1.138874	-3.460279	39733.071065			
HLA B*5101	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.473845
	1.013420	-3.460425	29774.515340			
HLA B*0801	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.313434
	0.852998	-3.460436	20579.442827			
HLA A*0212	1:155-163	9	LPVVFPVIVQ	1.161225	-0.206642	-4.415115
	0.954583	-3.460532	26008.459197			
HLA A*0212	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.269780
	0.809025	-3.460756	18611.448763			
HLA B*5801	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.355931
	0.895143	-3.460788	22695.047556			
HLA B*1502	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.463803
	1.002409	-3.461394	29093.971027			
HLA B*5101	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.356558
	0.895143	-3.461416	22727.852886			
HLA B*1509	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.464320
	1.002409	-3.461911	29128.618576			
HLA A*2402	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.545556
	1.083538	-3.462018	35120.095012			

HLA A*0203	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.417753
	0.954978	-3.462775	26166.949483			
HLA A*3002	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.509651
	1.046875	-3.462776	32333.361088			
HLA A*0211	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.214826
	0.751912	-3.462914	16399.315714			
HLA A*2301	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.535206
	1.071973	-3.463234	34293.056951			
HLA B*1503	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.215324
	0.751912	-3.463412	16418.134822			
HLA B*4801	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.384113
	0.920569	-3.463544	24216.600077			
HLA A*6802	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.449464
	0.985844	-3.463620	28149.072853			
HLA B*0802	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.451776
	0.987852	-3.463924	28299.319233			
HLA B*1501	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.268288
	0.804086	-3.464203	18547.622925			
HLA A*0202	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.177920
	0.713674	-3.464246	15063.296215			
HLA A*6802	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.431547
	0.967178	-3.464369	27011.389313			
HLA A*2403	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.452709
	0.987852	-3.464857	28360.163732			
HLA B*1517	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.419579
	0.954583	-3.464996	26277.173333			
HLA B*0803	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.478443
	1.013420	-3.465023	30091.417276			
HLA A*0101	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.244906
	0.779687	-3.465219	17575.439068			
HLA A*3301	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.512212
	1.046875	-3.465337	32524.587033			

HLA A*2301	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.453251
	0.987852	-3.465400	28395.627140			
HLA B*5401	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.541456
	1.075733	-3.465723	34790.112316			
HLA B*1502	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.538136
	1.071973	-3.466163	34525.184533			
HLA B*0803	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.421153
	0.954978	-3.466175	26372.591074			
HLA A*0201	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.390992
	0.924700	-3.466292	24603.248990			
HLA A*6802	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.421407
	0.954978	-3.466429	26388.004238			
HLA A*2601	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.391129
	0.924700	-3.466429	24610.970051			
HLA B*1801	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.192280
	0.725355	-3.466925	15569.693697			
HLA A*6802	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.033347
	0.566374	-3.466973	10798.086604			
HLA A*2902	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.387875
	0.920569	-3.467306	24427.256637			
HLA A*3301	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.485172
	1.017829	-3.467343	30561.281987			
HLA A*0201	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.394972
	0.927533	-3.467440	24829.758149			
HLA B*4001	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.422323
	0.954583	-3.467740	26443.737921			
HLA B*1801	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.481309
	1.013420	-3.467889	30290.679427			
HLA B*1503	1:153-161	9	DLPVVFPI	0.780193	-0.026100	-4.222043
	0.754093	-3.467950	16674.136205			
HLA A*2402	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.561189
	1.092768	-3.468422	36407.357250			

HLA B*4402	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.393166
	0.924700	-3.468466	24726.675842			
HLA B*4801	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.393199
	0.924700	-3.468499	24728.548673			
HLA A*0202	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.543843
	1.075247	-3.468595	34981.860822			
HLA A*2301	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.544397
	1.075733	-3.468664	35026.551871			
HLA A*0212	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.436178
	0.967178	-3.469000	27300.949860			
HLA A*0202	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-3.755036
	0.286028	-3.469009	5689.003630			
HLA B*5701	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.409091
	0.940065	-3.469026	25650.187539			
HLA A*0250	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.170787
	0.701666	-3.469121	14817.910932			
HLA B*0802	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.486974
	1.017829	-3.469145	30688.355969			
HLA A*2501	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.396796
	0.927533	-3.469263	24934.214415			
HLA A*0219	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.442066
	0.972498	-3.469568	27673.594106			
HLA B*0803	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.464296
	0.994492	-3.469804	29127.042793			
HLA A*0250	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.537152
	1.067238	-3.469914	34447.013424			
HLA B*4601	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.356641
	0.886699	-3.469942	22732.156724			
HLA A*2902	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.424943
	0.954978	-3.469965	26603.729297			
HLA B*1801	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.390539
	0.920569	-3.469970	24577.573933			

HLA B*5101	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.464684
	0.994492	-3.470192	29153.054122			
HLA A*2402	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.545946
	1.075733	-3.470213	35151.648484			
HLA A*3101	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.274303
	0.804086	-3.470217	18806.281810			
HLA B*5301	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.553972
	1.083538	-3.470434	35807.296913			
HLA A*3201	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.554051
	1.083538	-3.470513	35813.883778			
HLA A*0212	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.391211
	0.920569	-3.470642	24615.630484			
HLA A*6801	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.470835
	1.000164	-3.470671	29568.889249			
HLA B*4801	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.437907
	0.967178	-3.470729	27409.870161			
HLA B*4402	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.425800
	0.954978	-3.470822	26656.313174			
HLA A*0202	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.443456
	0.972498	-3.470958	27762.365139			
HLA B*1801	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.508906
	1.037888	-3.471018	32277.958999			
HLA A*0216	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.426004
	0.954978	-3.471027	26668.862197			
HLA B*3801	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.491912
	1.020870	-3.471042	31039.323022			
HLA B*0802	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.395804
	0.924700	-3.471104	24877.355200			
HLA A*2902	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.425563
	0.954256	-3.471307	26641.752175			
HLA B*4801	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.411623
	0.940065	-3.471559	25800.212893			

HLA A*0202	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-3.512334
	0.040514	-3.471820	3253.377136			
HLA B*1502	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.486158
	1.013420	-3.472739	30630.800858			
HLA B*0802	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.475299
	1.002409	-3.472890	29874.389028			
HLA B*1517	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.337770
	0.864656	-3.473114	21765.546597			
HLA B*0802	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.467621
	0.994492	-3.473129	29350.865694			
HLA A*0212	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.413317
	0.940065	-3.473253	25901.043919			
HLA A*2601	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.329445
	0.856017	-3.473428	21352.333925			
HLA A*2403	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.394014
	0.920569	-3.473445	24775.013483			
HLA A*1101	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.427757
	0.954256	-3.473501	26776.709262			
HLA B*0702	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.427797
	0.954256	-3.473541	26779.171979			
HLA B*0803	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.473744
	1.000164	-3.473579	29767.589842			
HLA B*4801	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.401166
	0.927533	-3.473633	25186.378861			
HLA B*5401	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.545636
	1.071973	-3.473663	35126.555464			
HLA B*3901	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.180566
	0.706847	-3.473719	15155.334857			
HLA B*4002	1:33-419		KGTDTGQAC	1.197565	-0.058691	-4.612645
	1.138874	-3.473772	40986.914555			
HLA A*3001	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.250500
	0.776623	-3.473878	17803.291679			

HLA B*3901	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.468558
	0.994492	-3.474066	29414.289308			
HLA A*2601	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.394752
	0.920569	-3.474183	24817.134693			
HLA A*0212	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.460049
	0.985844	-3.474204	28843.537623			
HLA A*3002	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.446833
	0.972498	-3.474335	27979.031153			
HLA B*2705	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.469056
	0.994492	-3.474565	29448.043806			
HLA A*0202	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.558241
	1.083538	-3.474703	36161.009965			
HLA A*3001	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.143044
	0.667964	-3.475080	13900.942953			
HLA B*1801	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.415159
	0.940065	-3.475095	26011.132689			
HLA A*0219	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.429686
	0.954583	-3.475103	26895.903030			
HLA B*1509	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.462997
	0.987852	-3.475145	29040.034546			
HLA A*2902	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.261766
	0.786460	-3.475307	18271.158611			
HLA B*3501	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.447871
	0.972498	-3.475373	28046.013853			
HLA B*4402	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.442733
	0.967178	-3.475555	27716.144731			
HLA A*0250	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.461411
	0.985844	-3.475567	28934.183158			
HLA A*0206	1:43-51	9	IQMSDPAYN	0.678035	-0.520108	-3.633516
	0.157927	-3.475590	4300.472230			
HLA A*0206	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.313709
	0.837899	-3.475809	20592.472853			

HLA B*1501	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.138914
	0.662917	-3.475997	13769.363542			
HLA B*5701	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.362782
	0.886699	-3.476083	23055.906135			
HLA A*3201	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.569088
	1.092768	-3.476321	37075.594530			
HLA B*5101	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.396925
	0.920569	-3.476356	24941.634542			
HLA A*2602	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.470861
	0.994492	-3.476369	29570.648910			
HLA B*3501	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.147579
	0.671022	-3.476557	14046.844253			
HLA B*5401	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.454163
	0.977336	-3.476827	28455.293211			
HLA A*2301	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.397508
	0.920569	-3.476939	24975.120007			
HLA A*8001	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.432097
	0.954978	-3.477119	27045.605063			
HLA B*1509	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.495234
	1.017829	-3.477405	31277.671378			
HLA B*0802	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.431989
	0.954583	-3.477406	27038.875469			
HLA B*3901	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.495505
	1.017829	-3.477676	31297.136437			
HLA B*0702	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.432773
	0.954978	-3.477795	27087.776260			
HLA A*2301	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.524852
	1.046875	-3.477977	33485.132387			
HLA A*0212	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.405719
	0.927533	-3.478186	25451.831172			
HLA B*1501	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.402918
	0.924700	-3.478218	25288.230865			

HLA A*0101	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.403106
	0.924700	-3.478406	25299.177755			
HLA B*1517	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.478642
	1.000164	-3.478478	30105.257713			
HLA B*0702	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.446048
	0.967178	-3.478870	27928.521406			
HLA A*6802	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.406466
	0.927533	-3.478933	25495.654781			
HLA A*6901	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.192628
	0.713674	-3.478954	15582.164776			
HLA A*2402	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.434340
	0.954978	-3.479362	27185.696246			
HLA A*1101	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.259092
	0.779687	-3.479405	18159.018613			
HLA A*0203	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.434106
	0.954583	-3.479523	27170.993063			
HLA A*2902	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.344200
	0.864656	-3.479544	22090.223937			
HLA A*3002	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.555339
	1.075733	-3.479606	35920.215846			
HLA A*2301	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.482195
	1.002409	-3.479786	30352.521164			
HLA A*2602	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.517710
	1.037888	-3.479821	32938.937480			
HLA B*4402	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.407427
	0.927533	-3.479894	25552.130062			
HLA A*3201	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.499811
	1.019585	-3.480227	31609.032947			
HLA A*8001	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.407801
	0.927533	-3.480268	25574.118754			
HLA B*3901	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.493688
	1.013420	-3.480269	31166.529963			

HLA A*2902	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.375488
	0.895143	-3.480345	23740.409741			
HLA B*0801	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.420732
	0.940065	-3.480668	26347.065005			
HLA B*1509	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.552651
	1.071973	-3.480679	35698.595252			
HLA B*4001	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.375852
	0.895143	-3.480710	23760.325202			
HLA A*0202	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.239246
	0.758478	-3.480768	17347.874592			
HLA A*2501	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.458667
	0.977336	-3.481331	28751.931680			
HLA B*5101	1:202-210	9	NPCELLPEA	1.188654	-0.463299	-4.206884
	0.725355	-3.481530	16102.172229			
HLA A*2602	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.484025
	1.002409	-3.481616	30480.705820			
HLA A*3001	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.204850
	0.723137	-3.481713	16026.910568			
HLA A*2403	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.438541
	0.956718	-3.481823	27449.936193			
HLA A*6801	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.249302
	0.767355	-3.481947	17754.239323			
HLA A*2902	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.438849
	0.956718	-3.482131	27469.396733			
HLA B*5301	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.549484
	1.067238	-3.482246	35439.209095			
HLA A*3301	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.468175
	0.985844	-3.482331	29388.362869			
HLA B*3901	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.437479
	0.954978	-3.482501	27382.895690			
HLA B*0802	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.481683
	0.999064	-3.482619	30316.745842			

HLA A*0219	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.403198
	0.920569	-3.482629	25304.516083			
HLA B*3801	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.460121
	0.977336	-3.482785	28848.375279			
HLA B*0702	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.407507
	0.924700	-3.482807	25556.830457			
HLA A*2501	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.437446
	0.954583	-3.482864	27380.821830			
HLA A*2403	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.455436
	0.972498	-3.482938	28538.851124			
HLA B*0803	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.502574
	1.019585	-3.482990	31810.771605			
HLA B*0702	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.347750
	0.864656	-3.483094	22271.537041			
HLA A*0212	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.438339
	0.954978	-3.483361	27437.168067			
HLA B*3901	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.469322
	0.985844	-3.483478	29466.051413			
HLA B*1801	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.478078
	0.994492	-3.483587	30066.195211			
HLA A*0101	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.348276
	0.864656	-3.483621	22298.542387			
HLA A*3002	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-3.644131
	0.160477	-3.483655	4406.878946			
HLA A*0250	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.235976
	0.751912	-3.484064	17217.725944			
HLA B*0801	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.331428
	0.847335	-3.484093	21450.050452			
HLA B*1509	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.207373
	0.723137	-3.484237	16120.301508			
HLA B*1517	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.471030
	0.985844	-3.485186	29582.169277			

HLA B*4601	1:68-76 9		NYIAQTRDK	0.633507	0.291193	-4.409929
	0.924700	-3.485229	25699.774396			
HLA B*3501	1:25-33 9		PKTYCEELK	0.921220	0.066632	-4.473389
	0.987852	-3.485537	29743.282828			
HLA A*8001	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.452744
	0.967178	-3.485566	28362.465205			
HLA A*0101	1:34-42 9		GTDTGQACQ	0.815488	-0.167073	-4.134121
	0.648415	-3.485706	13618.237910			
HLA B*1502	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.523656
	1.037888	-3.485768	33393.053437			
HLA A*0201	1:82-90 9		TSSTPREAP	0.792178	0.117162	-4.395142
	0.909340	-3.485802	24839.431522			
HLA A*2301	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.339365
	0.853458	-3.485907	21845.645324			
HLA A*2601	1:82-90 9		TSSTPREAP	0.792178	0.117162	-4.395313
	0.909340	-3.485974	24849.243095			
HLA B*4001	1:81-89 9		ATSSTPREA	0.999596	-0.112897	-4.372725
	0.886699	-3.486026	23589.851985			
HLA B*3501	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.453284
	0.967178	-3.486106	28397.777863			
HLA A*0202	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.276721
	0.790540	-3.486181	18911.264102			
HLA B*1509	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.440837
	0.954583	-3.486254	27595.405877			
HLA B*7301	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.579073
	1.092768	-3.486306	37937.912906			
HLA B*4501	1:33-41 9		KGDTGQAC	1.197565	-0.058691	-4.625246
	1.138874	-3.486372	42193.496342			
HLA B*1517	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.453569
	0.967178	-3.486391	28416.373036			
HLA B*7301	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.562615
	1.076055	-3.486561	36527.108340			

HLA A*1101	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.443440
	0.956718	-3.486722	27761.313820			
HLA B*1502	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.579609
	1.092768	-3.486842	37984.736475			
HLA A*0219	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.475008
	0.987852	-3.487156	29854.355224			
HLA A*3101	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.190335
	0.702788	-3.487547	15500.106964			
HLA B*1801	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.441826
	0.954256	-3.487570	27658.327789			
HLA B*0803	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.475473
	0.987852	-3.487621	29886.351090			
HLA B*1502	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.444469
	0.956718	-3.487751	27827.173123			
HLA A*0203	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.427884
	0.940065	-3.487819	26784.532793			
HLA B*4001	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.194766
	0.706847	-3.487919	15659.064894			
HLA B*1801	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.297192
	0.809025	-3.488167	19824.015225			
HLA A*2602	1:33-41	9	KGTDTGQAC	1.197565	-0.058691	-4.627059
	1.138874	-3.488186	42370.083207			
HLA A*0212	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.461002
	0.972498	-3.488504	28906.959627			
HLA B*5701	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.413411
	0.924700	-3.488711	25906.649396			
HLA A*2301	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.176637
	0.687624	-3.489013	15018.867907			
HLA A*8001	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.409640
	0.920569	-3.489071	25682.679034			
HLA A*2602	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.474972
	0.985844	-3.489128	29851.932691			

HLA B*2705	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.456355
	0.967178	-3.489177	28599.282295			
HLA A*0101	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.345262
	0.856017	-3.489245	22144.306592			
HLA B*4002	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.510257
	1.020870	-3.489387	32378.521932			
HLA A*2403	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.399227
	0.909340	-3.489888	25074.218540			
HLA A*0216	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.457629
	0.967178	-3.490451	28683.263027			
HLA B*1517	1:54-62	9	ISLPSYYPD	0.496117	-0.692209	-3.294406
	0.196092	-3.490498	1969.724919			
HLA A*1101	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.430713
	0.940065	-3.490648	26959.563435			
HLA B*1503	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.463429
	0.972498	-3.490931	29068.955957			
HLA B*3801	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.476920
	0.985844	-3.491076	29986.113243			
HLA A*8001	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.338432
	0.847335	-3.491097	21798.777211			
HLA A*2902	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.458387
	0.967178	-3.491209	28733.427810			
HLA B*0802	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.463803
	0.972498	-3.491305	29093.971027			
HLA B*5701	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.300469
	0.809025	-3.491445	19974.188963			
HLA A*0219	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.446518
	0.954978	-3.491540	27958.755800			
HLA B*2705	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.419189
	0.927533	-3.491656	26253.585931			
HLA A*3301	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.563767
	1.071973	-3.491794	36624.064518			

HLA B*4801	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.300939
	0.809025	-3.491915	19995.812289			
HLA B*5801	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.356591
	0.864656	-3.491936	22729.574324			
HLA A*0202	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.259348
	0.767355	-3.491994	18169.729743			
HLA A*0216	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.339414
	0.847335	-3.492079	21848.127298			
HLA B*5801	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.345088
	0.852998	-3.492090	22135.443297			
HLA A*2902	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.283050
	0.790540	-3.492510	19188.899679			
HLA A*2501	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.417542
	0.924700	-3.492842	26154.212157			
HLA A*0206	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.218237
	0.725355	-3.492882	16528.642223			
HLA B*5701	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.413465
	0.920569	-3.492896	25909.873095			
HLA B*4402	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.433022
	0.940065	-3.492958	27103.314153			
HLA A*8001	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.447223
	0.954256	-3.492967	28004.168773			
HLA A*2602	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.560411
	1.067238	-3.493174	36342.221902			
HLA A*3002	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.420728
	0.927533	-3.493195	26346.779937			
HLA A*1101	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.493388
	1.000164	-3.493223	31144.955677			
HLA B*7301	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.576912
	1.083538	-3.493374	37749.561306			
HLA B*1502	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.514439
	1.020870	-3.493569	32691.820281			

HLA B*3901	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.328940
	0.835252	-3.493688	21327.512905			
HLA B*2705	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.448280
	0.954583	-3.493697	28072.426576			
HLA B*5801	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.347252
	0.853458	-3.493794	22246.008535			
HLA B*3501	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.347461
	0.853458	-3.494003	22256.722125			
HLA A*2601	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.075290
	0.581216	-3.494073	11892.956012			
HLA A*2603	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.421705
	0.927533	-3.494172	26406.140502			
HLA A*6901	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.329497
	0.835252	-3.494245	21354.875379			
HLA A*0301	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.347292
	0.852998	-3.494294	22248.054553			
HLA B*4402	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.415866
	0.920569	-3.495298	26053.523114			
HLA A*0219	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.462772
	0.967178	-3.495594	29024.956538			
HLA B*3901	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.416273
	0.920569	-3.495704	26077.918302			
HLA B*4402	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.405400
	0.909340	-3.496060	25433.112003			
HLA B*4601	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.405421
	0.909340	-3.496081	25434.350346			
HLA A*2403	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.450787
	0.954583	-3.496204	28234.939084			
HLA B*5301	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.352332
	0.856017	-3.496314	22507.729446			
HLA A*2902	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.305384
	0.809025	-3.496360	20201.530651			

HLA B*5301	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.484312	
	0.987852	-3.496460	30500.829923			
HLA A*6901	1:77-85 9	FLSAATSST	0.627583	-0.297236	-3.826841	
	0.330347	-3.496494	6711.833455			
HLA B*0801	1:82-90 9	TSSTPREAP	0.792178	0.117162	-4.405900	
	0.909340	-3.496560	25462.435632			
HLA A*2603	1:33-41 9	KGTDTGQAC	1.197565	-0.058691	-4.635506	
	1.138874	-3.496632	43202.185313			
HLA A*6802	1:41-49 9	CQIQMSDPA	0.720301	-0.119784	-4.097164	
	0.600517	-3.496646	12507.298588			
HLA B*5801	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.352947
	0.856017	-3.496930	22539.654318			
HLA A*1101	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.469465
	0.972498	-3.496967	29475.776910			
HLA B*4403	1:215-223	9	QVLVPRSAI	0.852479	0.308989	-4.658479
	1.161468	-3.497011	45549.013955			
HLA A*2603	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.564340
	1.067238	-3.497102	36672.440679			
HLA A*3201	1:13-21 9	VLLCCSGVA	1.166577	-0.167513	-4.496332	
	0.999064	-3.497268	31356.791760			
HLA A*2501	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.485486	
	0.987852	-3.497635	30583.444661			
HLA A*2403	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.306763	
	0.809025	-3.497739	20265.784700			
HLA B*1509	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.483684
	0.985844	-3.497840	30456.805095			
HLA A*0203	1:68-76 9	NYIAQTRDK	0.633507	0.291193	-4.422621	
	0.924700	-3.497921	26461.912491			
HLA A*2301	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.517597	
	1.019585	-3.498012	32930.385182			
HLA B*1502	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.418585
	0.920569	-3.498016	26217.109844			

HLA A*0219	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.252143
	0.754093	-3.498050	17870.742501			
HLA A*2501	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.438278
	0.940065	-3.498214	27433.309106			
HLA B*2705	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.422936
	0.924700	-3.498236	26481.102351			
HLA B*5401	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.498589
	1.000164	-3.498425	31520.237194			
HLA A*0211	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.345873
	0.847335	-3.498538	22175.476052			
HLA A*3001	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-3.900277
	0.401614	-3.498663	7948.344364			
HLA A*0216	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.453150
	0.954256	-3.498895	28389.022369			
HLA A*2501	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.394432
	0.895143	-3.499289	24798.882327			
HLA B*2705	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.386094
	0.886699	-3.499395	24327.292984			
HLA A*2601	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.387090
	0.886699	-3.500391	24383.158806			
HLA B*5401	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.457551
	0.956718	-3.500833	28678.142766			
HLA A*2601	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.353903
	0.852998	-3.500906	22589.337366			
HLA A*2301	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.487098
	0.985844	-3.501254	30697.156322			
HLA B*1509	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.441669
	0.940065	-3.501604	27648.304497			
HLA B*3801	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.457072
	0.954978	-3.502094	28646.510527			
HLA A*2403	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.388829
	0.886699	-3.502130	24480.967994			

HLA B*4403	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.595080
	1.092768	-3.502313	39362.300862			
HLA A*2402	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.501407
	0.999064	-3.502343	31725.356389			
HLA B*2705	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.423077
	0.920569	-3.502508	26489.699336			
HLA B*1801	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.457575
	0.954978	-3.502597	28679.694263			
HLA A*6802	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.442801
	0.940065	-3.502736	27720.493369			
HLA A*3002	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.578230
	1.075247	-3.502982	37864.303285			
HLA A*2501	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.457443
	0.954256	-3.503187	28671.006957			
HLA A*3201	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.460415
	0.956718	-3.503697	28867.890191			
HLA B*5701	1:82-909		TSSTPREAP	0.792178	0.117162	-4.413244
	0.909340	-3.503905	25896.700508			
HLA B*0802	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.444105
	0.940065	-3.504040	27803.848905			
HLA B*4601	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.368961
	0.864656	-3.504306	23386.290545			
HLA A*0301	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.284070
	0.779687	-3.504383	19234.006073			
HLA A*3301	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.524262
	1.019585	-3.504678	33439.694380			
HLA A*3001	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.247758
	0.742712	-3.505046	17691.247493			
HLA A*0203	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.212077
	0.706847	-3.505230	16295.842907			
HLA B*4001	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.352569
	0.847335	-3.505234	22520.031003			

HLA A*6901	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.257180
	0.751912	-3.505268	18079.228467			
HLA B*0801	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.230755
	0.725355	-3.505400	17011.994560			
HLA A*6802	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.296024
	0.790540	-3.505484	19770.785691			
HLA B*1502	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.523658
	1.017829	-3.505830	33393.234090			
HLA A*3301	1:33-419		KGDTGQAC	1.197565	-0.058691	-4.644756
	1.138874	-3.505882	44132.206122			
HLA B*1509	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.500406
	0.994492	-3.505914	31652.325913			
HLA B*1801	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.491774
	0.985844	-3.505929	31029.417364			
HLA A*0212	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.207726
	0.701666	-3.506060	16133.388174			
HLA A*0212	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.431495
	0.924700	-3.506795	27008.174675			
HLA B*3901	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.474073
	0.967178	-3.506895	29790.143893			
HLA B*3501	1:82-909		TSSTPREAP	0.792178	0.117162	-4.416419
	0.909340	-3.507079	26086.666645			
HLA B*0801	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.431824
	0.924700	-3.507124	27028.637996			
HLA B*4601	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.402371
	0.895143	-3.507228	25256.375026			
HLA A*0203	1:82-909		TSSTPREAP	0.792178	0.117162	-4.416886
	0.909340	-3.507547	26114.765837			
HLA B*5101	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.493461
	0.985844	-3.507616	31150.179329			
HLA A*0216	1:25-339		PKTYCEELK	0.921220	0.066632	-4.495495
	0.987852	-3.507643	31296.459188			

HLA A*0250	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-3.931605
	0.423714	-3.507891	8542.887904			
HLA A*2602	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.583735
	1.075733	-3.508002	38347.301975			
HLA B*0702	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.361039
	0.852998	-3.508041	22963.542057			
HLA B*3901	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.417629
	0.909340	-3.508289	26159.447863			
HLA A*2402	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.527909
	1.019585	-3.508324	33721.640977			
HLA B*1517	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.275795
	0.767355	-3.508440	18870.997742			
HLA A*0216	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.215516
	0.706847	-3.508670	16425.419701			
HLA B*3801	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.508901
	1.000164	-3.508737	32277.609761			
HLA B*1502	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.584012
	1.075247	-3.508765	38371.789439			
HLA A*0219	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.256849
	0.748062	-3.508787	18065.442992			
HLA A*1101	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.429665
	0.920569	-3.509096	26894.593527			
HLA A*8001	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.318255
	0.809025	-3.509230	20809.169877			
HLA A*2902	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.437148
	0.927533	-3.509615	27362.016135			
HLA B*5401	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.363024
	0.852998	-3.510026	23068.756894			
HLA A*3002	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.464287
	0.954256	-3.510031	29126.412503			
HLA B*1517	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.466925
	0.956718	-3.510207	29303.902966			

HLA A*3002	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.290183
	0.779687	-3.510496	19506.668736			
HLA B*4801	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-3.796772
	0.286028	-3.510745	6262.856523			
HLA A*6901	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.258930
	0.748062	-3.510869	18152.241436			
HLA B*0803	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.319108
	0.808230	-3.510878	20850.074863			
HLA A*2402	1:49-579	9	AYNINISLP	0.584960	0.117828	-4.213721
	0.702788	-3.510934	16357.670995			
HLA A*2602	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.529177
	1.017829	-3.511348	33820.297395			
HLA A*2501	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.466343
	0.954978	-3.511365	29264.613673			
HLA B*4501	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.532387
	1.020870	-3.511517	34071.152055			
HLA B*1517	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.451856
	0.940065	-3.511791	28304.524982			
HLA A*8001	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.364803
	0.852998	-3.511805	23163.423765			
HLA B*1509	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.558717
	1.046875	-3.511843	36200.744072			
HLA B*3801	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.531435
	1.019585	-3.511851	33996.583707			
HLA B*5101	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.468617
	0.956718	-3.511899	29418.267778			
HLA B*7301	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.219910
	0.707999	-3.511911	16592.430698			
HLA A*6802	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.436681
	0.924700	-3.511981	27332.574917			
HLA A*0301	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.368235
	0.856017	-3.512218	23347.229375			

HLA A*6801	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.466930
	0.954583	-3.512347	29304.220030			
HLA B*7301	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.559434
	1.046875	-3.512559	36260.525192			
HLA A*0211	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.498409
	0.985844	-3.512564	31507.109812			
HLA A*0101	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.366104
	0.853458	-3.512647	23232.950503			
HLA B*7301	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.588441
	1.075733	-3.512708	38765.093151			
HLA B*1502	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.507332
	0.994492	-3.512840	32161.175255			
HLA B*0803	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.490197
	0.977336	-3.512861	30916.983667			
HLA A*0216	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.440708
	0.927533	-3.513175	27587.196254			
HLA A*0201	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.366840
	0.853458	-3.513382	23272.324075			
HLA B*0803	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.438194
	0.924700	-3.513494	27427.966824			
HLA B*1502	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.580760
	1.067238	-3.513523	38085.561727			
HLA A*0216	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.322660
	0.809025	-3.513636	21021.322741			
HLA A*6801	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.423002
	0.909340	-3.513662	26485.113930			
HLA B*2705	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.220554
	0.706847	-3.513707	16617.044056			
HLA A*3002	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.468779
	0.954978	-3.513801	29429.251148			
HLA A*8001	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.409015
	0.895143	-3.513873	25645.747454			

HLA B*5801	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.351787
	0.837899	-3.513887	22479.497844			
HLA A*2602	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.560881
	1.046875	-3.514007	36381.564661			
HLA A*2301	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.491374
	0.977336	-3.514038	31000.893312			
HLA A*2601	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.367545
	0.853458	-3.514087	23310.124949			
HLA A*6801	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.322366
	0.808230	-3.514136	21007.112168			
HLA B*3801	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.502102
	0.987852	-3.514250	31776.199762			
HLA B*0802	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.434909
	0.920569	-3.514340	27221.310882			
HLA B*4601	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.368268
	0.853458	-3.514811	23348.997725			
HLA A*2902	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.282216
	0.767355	-3.514861	19152.082558			
HLA B*3501	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.439627
	0.924700	-3.514927	27518.629516			
HLA B*3901	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.502821
	0.987852	-3.514969	31828.846476			
HLA A*0301	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.368534
	0.853458	-3.515076	23363.275739			
HLA A*0216	1:34-42	9	GTDGTGQACQ	0.815488	-0.167073	-4.163593
	0.648415	-3.515178	14574.472895			
HLA A*0206	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.267092
	0.751912	-3.515180	18496.619822			
HLA B*4403	1:33-41	9	KGTDGTGQAC	1.197565	-0.058691	-4.654374
	1.138874	-3.515501	45120.554638			
HLA B*0702	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.295199
	0.779687	-3.515512	19733.279139			

HLA B*1502	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.562458
	1.046875	-3.515583	36513.871029			
HLA B*4801	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.425011
	0.909340	-3.515671	26607.903398			
HLA B*3901	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.873779
	0.357949	-3.515830	7477.891903			
HLA A*0211	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.292483
	0.776623	-3.515861	19610.255615			
HLA A*2501	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.436460
	0.920569	-3.515891	27318.679027			
HLA B*1503	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-3.734215
	0.218305	-3.515910	5422.693709			
HLA B*5401	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.470353
	0.954256	-3.516098	29536.114722			
HLA B*5101	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.483290
	0.967178	-3.516112	30429.136657			
HLA B*4601	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.325252
	0.809025	-3.516227	21147.134230			
HLA A*0250	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.230025
	0.713674	-3.516350	16983.396360			
HLA B*3901	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.456717
	0.940065	-3.516652	28623.118941			
HLA B*5401	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.554968
	1.037888	-3.517079	35889.525712			
HLA B*0802	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.474028
	0.956718	-3.517310	29787.081984			
HLA B*3801	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.535152
	1.017829	-3.517323	34288.790219			
HLA A*2501	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.370467
	0.852998	-3.517470	23467.528870			
HLA A*3001	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.258214
	0.740601	-3.517613	18122.314641			

HLA A*0216	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.472235
	0.954583	-3.517652	29664.381905			
HLA B*5101	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.260528
	0.742712	-3.517816	18219.141512			
HLA B*1517	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.206447
	0.688457	-3.517990	16085.977738			
HLA A*0212	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.272167
	0.754093	-3.518074	18714.027262			
HLA A*2902	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.198234
	0.680076	-3.518157	15784.603014			
HLA B*5401	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.532476
	1.013420	-3.519056	34078.156979			
HLA A*0250	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.594324
	1.075247	-3.519076	39293.792040			
HLA A*2402	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.505243
	0.985844	-3.519399	32006.870927			
HLA B*5301	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.595146
	1.075733	-3.519413	39368.263793			
HLA B*4501	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.533031
	1.013420	-3.519611	34121.693502			
HLA A*2602	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.215939
	0.696230	-3.519709	16441.422237			
HLA B*1503	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.227710
	0.707999	-3.519711	16893.136941			
HLA B*4501	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.612697
	1.092768	-3.519929	40991.793008			
HLA B*5701	1:154-162	9	PLPVVFP	1.026322	-0.131179	-4.415723
	0.895143	-3.520580	26044.926785			
HLA A*0203	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.376780
	0.856017	-3.520763	23811.153077			
HLA B*5301	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.592947
	1.071973	-3.520975	39169.420301			

HLA B*1509	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.374313
	0.852998	-3.521316	23676.280021			
HLA B*4801	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.368961
	0.847335	-3.521626	23386.290545			
HLA A*3201	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.301355
	0.779687	-3.521668	20014.968456			
HLA B*7301	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.593720
	1.071973	-3.521748	39239.198211			
HLA B*3501	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.879794
	0.357949	-3.521844	7582.176058			
HLA B*1801	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.499304
	0.977336	-3.521968	31572.118225			
HLA B*3501	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.408853
	0.886699	-3.522154	25636.176136			
HLA A*0202	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.210677
	0.688457	-3.522220	16243.384936			
HLA B*5101	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.510299
	0.987852	-3.522448	32381.675041			
HLA A*6901	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.263411
	0.740601	-3.522810	18340.481247			
HLA B*4501	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.540711
	1.017829	-3.522882	34730.500669			
HLA B*5801	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.358252
	0.835252	-3.523000	22816.676677			
HLA B*5301	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.540918
	1.017829	-3.523089	34747.038764			
HLA A*0201	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.332201
	0.809025	-3.523177	21488.262396			
HLA B*4403	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.480177
	0.956718	-3.523458	30211.797354			
HLA A*1101	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.478342
	0.954583	-3.523759	30084.418067			

HLA B*2705	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.496310
	0.972498	-3.523812	31355.265067			
HLA B*0802	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.491158
	0.967178	-3.523980	30985.467703			
HLA A*0212	1:82-909		TSSTPREAP	0.792178	0.117162	-4.433544
	0.909340	-3.524204	27135.884663			
HLA A*0219	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.464550
	0.940065	-3.524485	29144.065765			
HLA B*0803	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.377979
	0.853458	-3.524521	23876.939795			
HLA A*0203	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.315398
	0.790540	-3.524858	20672.727590			
HLA A*0203	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.362900
	0.837899	-3.525001	23062.143473			
HLA A*6901	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.362921
	0.837899	-3.525022	23063.266373			
HLA A*2403	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.389822
	0.864656	-3.525167	24537.053976			
HLA B*4801	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.420415
	0.895143	-3.525272	26327.829845			
HLA B*3801	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.572276
	1.046875	-3.525402	37348.776126			
HLA B*1503	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.205588
	0.680076	-3.525511	16054.158701			
HLA A*2601	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.390255
	0.864656	-3.525599	24561.490801			
HLA B*0702	1:82-909		TSSTPREAP	0.792178	0.117162	-4.434965
	0.909340	-3.525626	27224.845454			
HLA B*1517	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.479897
	0.954256	-3.525641	30192.353958			
HLA A*0202	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.277562
	0.751912	-3.525649	18947.925801			

HLA B*2705	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.420850
	0.895143	-3.525707	26354.192704			
HLA B*0802	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.480224
	0.954256	-3.525968	30215.066380			
HLA A*0216	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.466639
	0.940065	-3.526574	29284.568582			
HLA A*6802	1:78-869		LSAATSSTP	0.733359	0.025119	-4.285494
	0.758478	-3.527016	19297.166176			
HLA B*0801	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.362481
	0.835252	-3.527229	23039.946235			
HLA A*2902	1:82-909		TSSTPREAP	0.792178	0.117162	-4.436756
	0.909340	-3.527416	27337.307045			
HLA B*0803	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.484173
	0.956718	-3.527455	30491.096116			
HLA B*5801	1:153-161	9	DPLPVVFPV	0.780193	-0.026100	-4.281802
	0.754093	-3.527710	19133.855764			
HLA B*3901	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.500262
	0.972498	-3.527764	31641.882267			
HLA A*6901	1:53-619		NISLPSYYP	0.515820	0.118220	-4.161826
	0.634040	-3.527786	14515.300935			
HLA B*1501	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.318407
	0.790540	-3.527868	20816.488559			
HLA A*3002	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.514011
	0.985844	-3.528167	32659.647762			
HLA A*8001	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.414913
	0.886699	-3.528214	25996.361563			
HLA A*0206	1:155-163	9	LPVVFPVIVQ	1.161225	-0.206642	-4.483449
	0.954583	-3.528866	30440.332758			
HLA A*0301	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.366840
	0.837899	-3.528941	23272.324075			
HLA A*6901	1:78-869		LSAATSSTP	0.733359	0.025119	-4.287430
	0.758478	-3.528952	19383.380109			

HLA A*0216	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.109296
	0.579719	-3.529577	12861.637307			
HLA A*2603	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.547407
	1.017829	-3.529578	35270.131293			
HLA B*0803	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.450244
	0.920569	-3.529675	28199.676360			
HLA A*0301	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.364941
	0.835252	-3.529689	23170.818327			
HLA A*3201	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.502250
	0.972498	-3.529752	31787.031668			
HLA B*5101	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.484020
	0.954256	-3.529765	30480.376027			
HLA A*2403	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.383265
	0.853458	-3.529807	24169.351936			
HLA B*5401	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.425133
	0.895143	-3.529990	26615.389633			
HLA A*3301	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.605947
	1.075733	-3.530214	40359.599192			
HLA B*3901	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.455056
	0.924700	-3.530356	28513.850573			
HLA A*2403	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.306996
	0.776623	-3.530373	20276.641536			
HLA B*3901	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.307059
	0.776623	-3.530437	20279.603501			
HLA B*1801	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.497997
	0.967178	-3.530819	31477.295183			
HLA B*4501	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.598417
	1.067238	-3.531179	39665.848172			
HLA B*0803	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.485576
	0.954256	-3.531320	30589.732523			
HLA A*2501	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.498693
	0.967178	-3.531515	31527.741011			

HLA B*4001	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.387689
	0.856017	-3.531672	24416.819116			
HLA B*1509	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.486673
	0.954978	-3.531695	30667.112687			
HLA B*4001	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.396443
	0.864656	-3.531788	24913.988922			
HLA A*0219	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.283807
	0.751912	-3.531894	19222.355573			
HLA A*0206	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.486927
	0.954978	-3.531949	30685.035736			
HLA A*3301	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.532307
	1.000164	-3.532143	34064.885712			
HLA B*7301	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.545640
	1.013420	-3.532220	35126.935527			
HLA A*0216	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.456968
	0.924700	-3.532268	28639.692463			
HLA A*3001	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.110368
	0.578083	-3.532285	12893.404970			
HLA A*0212	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.379694
	0.847335	-3.532359	23971.421503			
HLA B*1517	1:82-909		TSSTPREAP	0.792178	0.117162	-4.441859
	0.909340	-3.532519	27660.422667			
HLA B*4601	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.275428
	0.742712	-3.532716	18855.078419			
HLA A*0211	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.505295
	0.972498	-3.532797	32010.680533			
HLA B*0801	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.275647
	0.742712	-3.532934	18864.567167			
HLA A*2601	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.380436
	0.847335	-3.533101	24012.436295			
HLA A*0201	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.389183
	0.856017	-3.533166	24500.974502			

HLA A*6801	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.605162
	1.071973	-3.533190	40286.739158			
HLA A*0203	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.196218
	0.662917	-3.533301	15711.505639			
HLA A*2501	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.389437
	0.856017	-3.533420	24515.293821			
HLA A*0219	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.342555
	0.809025	-3.533531	22006.728169			
HLA A*1101	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.461200
	0.927533	-3.533667	28920.098821			
HLA B*4501	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.454264
	0.920569	-3.533695	28461.913400			
HLA A*2301	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.547135
	1.013420	-3.533715	35248.004566			
HLA A*3201	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.609135
	1.075247	-3.533888	40656.978098			
HLA B*5801	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.320611
	0.786460	-3.534152	20922.389800			
HLA B*5101	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.506683
	0.972498	-3.534185	32113.190292			
HLA A*0206	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.506726
	0.972498	-3.534228	32116.317562			
HLA B*1517	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.506942
	0.972498	-3.534444	32132.306147			
HLA B*0802	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.443938
	0.909340	-3.534598	27793.171439			
HLA B*1502	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.554423
	1.019585	-3.534838	35844.509229			
HLA A*0219	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.382332
	0.847335	-3.534997	24117.498494			
HLA A*2602	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.610350
	1.075247	-3.535102	40770.851288			

HLA A*0301	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.325665
	0.790540	-3.535125	21167.278861			
HLA B*3901	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.287086
	0.751912	-3.535174	19368.076311			
HLA A*2601	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.322477
	0.786460	-3.536017	21012.454216			
HLA B*4002	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.456705
	0.920569	-3.536136	28622.344712			
HLA A*3301	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.392449
	0.856017	-3.536432	24685.910068			
HLA B*5701	1:14-22 9		LLCCSGVAT	1.136854	-0.272198	-4.401358
	0.864656	-3.536703	25197.554292			
HLA A*0211	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.074608
	0.537766	-3.536842	11874.312164			
HLA A*2301	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.531438
	0.994492	-3.536946	33996.767625			
HLA A*0301	1:65-73 9		SLENYIAQT	1.098356	-0.294270	-4.341331
	0.804086	-3.537246	21944.788387			
HLA B*3901	1:64-72 9		KSLENYIAQ	0.805806	0.003219	-4.346465
	0.809025	-3.537441	22205.728319			
HLA A*2602	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.291560
	0.754093	-3.537467	19568.606807			
HLA A*6801	1:33-41 9		KGTDTGQAC	1.197565	-0.058691	-4.676640
	1.138874	-3.537767	47494.191484			
HLA A*2603	1:15-23 9		LCCSGVATA	1.215808	-0.196223	-4.557841
	1.019585	-3.538257	36127.768654			
HLA B*7301	1:56-64 9		LPSYYPDQK	0.981412	0.093835	-4.613524
	1.075247	-3.538276	41069.927271			
HLA B*5301	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.576285
	1.037888	-3.538396	37695.073676			
HLA B*1517	1:25-33 9		PKTYCEELK	0.921220	0.066632	-4.526276
	0.987852	-3.538424	33595.089949			

HLA A*2902	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.318118
	0.779687	-3.538431	20802.641534			
HLA B*1801	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.510952
	0.972498	-3.538454	32430.412075			
HLA B*5101	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.391514
	0.852998	-3.538516	24632.815130			
HLA B*0702	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.394559
	0.856017	-3.538542	24806.127983			
HLA A*3101	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.394684
	0.856017	-3.538666	24813.241518			
HLA A*2902	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.342797
	0.804086	-3.538712	22018.994143			
HLA B*1503	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.394949
	0.856017	-3.538932	24828.414923			
HLA A*0212	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.392461
	0.853458	-3.539003	24686.577817			
HLA A*6801	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.541484
	1.002409	-3.539075	34792.370917			
HLA A*2301	1:153-161	9	DPLPVVFPPI	0.780193	-0.026100	-4.293280
	0.754093	-3.539187	19646.252889			
HLA A*3301	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.615345
	1.076055	-3.539290	41242.481157			
HLA A*1101	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.392386
	0.852998	-3.539388	24682.304534			
HLA B*4501	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.539755
	1.000164	-3.539591	34654.114314			
HLA A*3001	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.219699
	0.680076	-3.539622	16584.353976			
HLA A*3001	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.288658
	0.748062	-3.540597	19438.300561			
HLA A*3101	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.394059
	0.853458	-3.540601	24777.560185			

HLA A*0203	1:64-72 9		KSLENYIAQ	0.805806	0.003219	-4.349778
	0.809025	-3.540753	22375.760036			
HLA A*2402	1:172-180 9		QQVSIAPNA	1.175074	-0.172665	-4.543509
	1.002409	-3.541101	34954.997927			
HLA A*0201	1:177-185 9		APNAGLDPV	0.672482	0.029184	-4.242869
	0.701666	-3.541203	17493.196712			
HLA B*4601	1:184-192 9		PVNYQNFAV	0.967153	-0.114155	-4.394232
	0.852998	-3.541235	24787.481416			
HLA A*6801	1:180-188 9		AGLDPVNYQ	1.025360	-0.030868	-4.535740
	0.994492	-3.541248	34335.196232			
HLA B*0803	1:116-124 9		VYQNAGGTH	1.000005	-0.059940	-4.481379
	0.940065	-3.541315	30295.595902			
HLA A*6801	1:103-111 9		AIPPRGTQA	1.171695	-0.095962	-4.617189
	1.075733	-3.541456	41418.000630			
HLA B*3801	1:63-71 9		QKSLENYIA	1.220826	-0.266570	-4.495768
	0.954256	-3.541512	31316.105355			
HLA B*1502	1:134-142 9		WDQAYRKPI	0.842101	0.011357	-4.395327
	0.853458	-3.541870	24850.049698			
HLA A*0203	1:31-39 9		ELKGTDTGQ	0.941370	-0.200769	-4.282799
	0.740601	-3.542198	19177.795243			
HLA A*8001	1:82-90 9		TSSTPREAP	0.792178	0.117162	-4.451586
	0.909340	-3.542246	28286.921159			
HLA B*0803	1:141-149 9		PITYDTLWQ	1.144380	-0.171882	-4.514784
	0.972498	-3.542286	32717.828913			
HLA B*5101	1:107-115 9		RGTQAVVLK	0.840868	0.114110	-4.497293
	0.954978	-3.542315	31426.250013			
HLA B*0702	1:154-162 9		PLPVVFPVIV	1.026322	-0.131179	-4.437529
	0.895143	-3.542386	27386.006773			
HLA A*3002	1:68-76 9		NYIAQTRDK	0.633507	0.291193	-4.467250
	0.924700	-3.542550	29325.788394			
HLA A*0201	1:27-35 9		TYCEELKGT	0.991738	-0.153839	-4.380575
	0.837899	-3.542676	24020.101890			

HLA B*4001	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.351704
	0.809025	-3.542680	22475.241841			
HLA A*3301	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.530578
	0.987852	-3.542726	33929.519963			
HLA A*3101	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.329387
	0.786460	-3.542927	21349.446276			
HLA A*0219	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.467837
	0.924700	-3.543137	29365.477543			
HLA A*3001	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.297415
	0.754093	-3.543322	19834.206187			
HLA B*5701	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.396843
	0.853458	-3.543385	24936.912388			
HLA A*2402	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.531266
	0.987852	-3.543414	33983.344208			
HLA B*4001	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.396504
	0.852998	-3.543507	24917.493498			
HLA B*3901	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.266667
	0.723137	-3.543531	18478.516983			
HLA A*2602	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.430241
	0.886699	-3.543542	26930.263869			
HLA B*1503	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.206664
	0.662917	-3.543746	16093.985880			
HLA B*3801	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.468624
	0.924700	-3.543924	29418.745230			
HLA B*4002	1:110-118	9	QAVVLKVYQ	1.073710	0.019058	-4.636927
	1.092768	-3.544160	43343.816981			
HLA B*1501	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.379424
	0.835252	-3.544171	23956.512627			
HLA A*0211	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.471826
	0.927533	-3.544294	29636.471346			
HLA B*5801	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.352823
	0.808230	-3.544593	22533.192582			

HLA B*3801	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.558318
	1.013420	-3.544898	36167.466234			
HLA A*0206	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.512155
	0.967178	-3.544977	32520.364401			
HLA B*1501	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.401037
	0.856017	-3.545019	25178.885922			
HLA B*4801	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.431899
	0.886699	-3.545201	27033.317503			
HLA B*3901	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.401274
	0.856017	-3.545257	25192.647395			
HLA B*1503	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-3.774871
	0.229395	-3.545475	5954.846394			
HLA B*4402	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.440724
	0.895143	-3.545581	27588.240980			
HLA B*5401	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.540192
	0.994492	-3.545700	34689.002199			
HLA A*6901	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.332229
	0.786460	-3.545770	21489.657431			
HLA A*3001	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.297791
	0.751912	-3.545879	19851.381757			
HLA A*0101	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.350360
	0.804086	-3.546275	22405.800678			
HLA A*6801	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.325989
	0.779687	-3.546302	21183.087505			
HLA B*4601	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.393723
	0.847335	-3.546387	24758.399327			
HLA A*8001	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.411449
	0.864656	-3.546794	25789.886315			
HLA B*4403	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.298926
	0.751912	-3.547013	19903.320778			
HLA B*2705	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.295568
	0.748062	-3.547506	19750.046771			

HLA A*2402	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.385579
	0.837899	-3.547680	24298.487908			
HLA B*4501	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.623674
	1.075733	-3.547941	42041.064979			
HLA B*3801	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.542685
	0.994492	-3.548193	34888.685871			
HLA B*5801	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.291048
	0.742712	-3.548335	19545.542059			
HLA B*4801	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.401365
	0.852998	-3.548368	25197.963243			
HLA A*2603	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.624289
	1.075733	-3.548556	42100.695854			
HLA A*0203	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.307123
	0.758478	-3.548645	20282.565898			
HLA B*4002	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.624705
	1.076055	-3.548651	42141.028699			
HLA B*4001	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.384090
	0.835252	-3.548838	24215.290021			
HLA A*0219	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.250526
	0.701666	-3.548860	17804.351162			
HLA A*6801	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.566753
	1.017829	-3.548924	36876.758216			
HLA A*6801	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.616167
	1.067238	-3.548929	41320.646173			
HLA A*2403	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.215860
	0.666762	-3.549097	16438.398342			
HLA A*0212	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.255949
	0.706847	-3.549102	18028.050371			
HLA A*0206	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.537004
	0.987852	-3.549152	34435.275090			
HLA A*0202	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.215958
	0.666762	-3.549196	16442.133823			

HLA A*0212	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.405609
	0.856017	-3.549591	25445.360490			
HLA A*0211	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.504668
	0.954978	-3.549690	31964.476390			
HLA A*0219	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.405891
	0.856017	-3.549873	25461.884642			
HLA A*3301	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.237677
	0.687624	-3.550053	17285.295881			
HLA B*4501	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.633600
	1.083538	-3.550062	43013.054379			
HLA A*2301	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.477787
	0.927533	-3.550254	30046.032782			
HLA A*3201	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.459680
	0.909340	-3.550340	28819.049691			
HLA A*2601	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.388312
	0.837899	-3.550413	24451.848675			
HLA A*0206	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.536280
	0.985844	-3.550436	34377.945231			
HLA B*1801	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.538434
	0.987852	-3.550583	34548.913416			
HLA B*5801	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.341320
	0.790540	-3.550780	21944.194800			
HLA A*0201	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.264489
	0.713674	-3.550815	18386.079804			
HLA B*1509	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.549970
	0.999064	-3.550907	35478.917819			
HLA B*3501	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.446062
	0.895143	-3.550919	27929.427962			
HLA A*6801	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-3.647970
	0.096880	-3.551090	4446.007381			
HLA B*4002	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.598273
	1.046875	-3.551399	39652.760474			

HLA B*7301	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.550499
	0.999064	-3.551435	35522.129940			
HLA B*5301	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.553917
	1.002409	-3.551509	35802.841779			
HLA A*0101	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.360816
	0.809025	-3.551791	22951.743219			
HLA B*1503	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.240353
	0.688457	-3.551896	17392.134343			
HLA A*2301	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.524417
	0.972498	-3.551919	33451.636244			
HLA A*2603	1:2-10	9	RIKIFMLVT	1.197683	-0.125710	-4.623913
	1.071973	-3.551941	42064.270006			
HLA A*0211	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.506921
	0.954583	-3.552338	32130.741695			
HLA A*3101	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.328983
	0.776623	-3.552360	21329.589836			
HLA B*1509	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.462093
	0.909340	-3.552753	28979.612694			
HLA A*2603	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.552999
	1.000164	-3.552835	35727.189263			
HLA B*0803	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.507611
	0.954583	-3.553029	32181.886540			
HLA B*4601	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.409116
	0.856017	-3.553099	25651.713996			
HLA A*2601	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.388352
	0.835252	-3.553099	24454.097569			
HLA B*0802	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.406607
	0.853458	-3.553149	25503.931844			
HLA A*2501	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.440125
	0.886699	-3.553426	27550.208641			
HLA B*4002	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.620673
	1.067238	-3.553436	41751.628218			

HLA A*2602	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.478323
	0.924700	-3.553623	30083.116068			
HLA B*3501	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.333392
	0.779687	-3.553705	21547.281601			
HLA A*0211	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.521227
	0.967178	-3.554049	33206.780003			
HLA B*1801	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.478835
	0.924700	-3.554135	30118.615696			
HLA A*2603	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.526760
	0.972498	-3.554262	33632.550435			
HLA B*1501	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.321765
	0.767355	-3.554410	20978.038891			
HLA A*0203	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.340955
	0.786460	-3.554496	21925.801586			
HLA A*3201	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.449767
	0.895143	-3.554624	28168.724263			
HLA B*0702	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.402002
	0.847335	-3.554667	25234.932565			
HLA B*5701	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.407918
	0.852998	-3.554920	25581.037347			
HLA A*0301	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.174377
	0.619394	-3.554983	14940.908052			
HLA B*0803	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.522284
	0.967178	-3.555106	33287.718733			
HLA A*2603	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.475858
	0.920569	-3.555289	29912.878679			
HLA A*2301	1:155-163	9	LPVVFPVQ	1.161225	-0.206642	-4.510029
	0.954583	-3.555446	32361.535460			
HLA A*0301	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.363804
	0.808230	-3.555574	23110.227532			
HLA A*0301	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.323057
	0.767355	-3.555702	21040.550720			

HLA A*3201	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.555980
	1.000164	-3.555816	35973.305598			
HLA A*0301	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.135587
	0.579719	-3.555868	13664.287644			
HLA B*5801	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.360217
	0.804086	-3.556131	22920.102619			
HLA A*2902	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.412258
	0.856017	-3.556240	25837.926028			
HLA B*4402	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.409380
	0.852998	-3.556382	25667.261274			
HLA B*7301	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.263462
	0.706847	-3.556616	18342.664217			
HLA A*0216	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.219793
	0.662917	-3.556875	16587.943145			
HLA A*8001	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.410582
	0.853458	-3.557125	25738.454630			
HLA B*5401	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.545119
	0.987852	-3.557267	35084.773563			
HLA B*4002	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.633246
	1.075733	-3.557512	42977.931652			
HLA B*4801	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.422283
	0.864656	-3.557627	26441.306052			
HLA B*5101	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.498019
	0.940065	-3.557954	31478.827818			
HLA B*4002	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.641725
	1.083538	-3.558187	43825.290371			
HLA A*0216	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.298872
	0.740601	-3.558271	19900.844413			
HLA A*2301	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.515036
	0.956718	-3.558318	32736.773377			
HLA A*0203	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-3.844556
	0.286028	-3.558529	6991.273440			

HLA B*0803	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.299156
	0.740601	-3.558555	19913.875702			
HLA A*6802	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-3.434891
	-0.124403	-3.559294	2722.016074			
HLA A*3002	1:78-869		LSAATSSTP	0.733359	0.025119	-4.317832
	0.758478	-3.559354	20788.916186			
HLA A*0219	1:82-909		TSSTPREAP	0.792178	0.117162	-4.468822
	0.909340	-3.559482	29432.117049			
HLA B*4403	1:142-150	9	ITYDTLWQA	1.233555	-0.212685	-4.580843
	1.020870	-3.559973	38092.773763			
HLA A*0206	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.416101
	0.856017	-3.560084	26067.621594			
HLA A*2602	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.369199
	0.809025	-3.560174	23399.072278			
HLA A*2501	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.339987
	0.779687	-3.560300	21876.986151			
HLA A*3001	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.261989
	0.701666	-3.560324	18280.551294			
HLA A*2602	1:184-192	9	PVNYQNFVAV	0.967153	-0.114155	-4.413510
	0.852998	-3.560512	25912.536453			
HLA A*2402	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.573961
	1.013420	-3.560541	37493.929274			
HLA B*4501	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-3.554592
	-0.005967	-3.560560	3585.851064			
HLA B*4402	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.416776
	0.856017	-3.560759	26108.126616			
HLA A*2501	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.398713
	0.837899	-3.560814	25044.529056			
HLA A*3201	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.546660
	0.985844	-3.560816	35209.506670			
HLA A*6802	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.301639
	0.740601	-3.561038	20028.074476			

HLA B*4403	1:102-110	9	SAIPPRGTQ	1.076283	0.007255	-4.644840
	1.083538	-3.561302	44140.801972			
HLA B*1517	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.486205
	0.924700	-3.561505	30634.115222			
HLA B*4402	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.426171
	0.864656	-3.561516	26679.107731			
HLA B*7301	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.581164
	1.019585	-3.561580	38121.016871			
HLA B*3901	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.448332
	0.886699	-3.561633	28075.767887			
HLA A*0211	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.516070
	0.954256	-3.561814	32814.791214			
HLA A*0219	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.415284
	0.853458	-3.561826	26018.591777			
HLA B*1801	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.471178
	0.909340	-3.561838	29592.253279			
HLA A*3301	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.629096
	1.067238	-3.561859	42569.281531			
HLA A*2603	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.608891
	1.046875	-3.562016	40634.109758			
HLA A*0301	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.348901
	0.786460	-3.562442	22330.653769			
HLA B*5401	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.310607
	0.748062	-3.562545	20445.944705			
HLA A*3002	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.366715
	0.804086	-3.562630	23265.652295			
HLA A*6901	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-3.834195
	0.271476	-3.562719	6826.452295			
HLA A*0203	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.270295
	0.707433	-3.562861	18633.512037			
HLA B*1509	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.535714
	0.972498	-3.563216	34333.153047			

HLA B*4402	1:220-228	9	RSAIDSMILA	1.010961	-0.163626	-4.410721
	0.847335	-3.563386	25746.671230			
HLA B*3801	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.518109
	0.954583	-3.563526	32969.244734			
HLA B*0801	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.252119
	0.688457	-3.563662	17869.775740			
HLA A*0211	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.252145
	0.688457	-3.563688	17870.839180			
HLA A*2601	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.367911
	0.804086	-3.563825	23329.805663			
HLA A*0101	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.401995
	0.837899	-3.564096	25234.523014			
HLA B*4402	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.350781
	0.786460	-3.564321	22427.508295			
HLA A*6901	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.354902
	0.790540	-3.564362	22641.334589			
HLA B*5801	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.340998
	0.776623	-3.564375	21927.936780			
HLA B*5401	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.323109
	0.758478	-3.564631	21043.055065			
HLA B*5101	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.418106
	0.853458	-3.564648	26188.192145			
HLA A*3301	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.563858
	0.999064	-3.564795	36631.792487			
HLA B*4002	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.563877
	0.999064	-3.564813	36633.377912			
HLA A*3001	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.262631
	0.697746	-3.564885	18307.569782			
HLA B*3901	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.417960
	0.852998	-3.564962	26179.409755			
HLA A*2902	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.271827
	0.706847	-3.564980	18699.353101			

HLA B*4001	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.369126
	0.804086	-3.565040	23395.148429			
HLA B*2705	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.369431
	0.804086	-3.565346	23411.607686			
HLA A*3001	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.236410
	0.671022	-3.565388	17234.966578			
HLA A*0101	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.400738
	0.835252	-3.565486	25161.592561			
HLA A*6901	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.342147
	0.776623	-3.565524	21986.022526			
HLA B*4002	1:56-64	9	LPSYYPDQK	0.981412	0.093835	-4.640827
	1.075247	-3.565580	43734.815524			
HLA A*3101	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.400999
	0.835252	-3.565747	25176.706577			
HLA A*3001	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.253371
	0.687624	-3.565747	17921.377079			
HLA A*0201	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.401109
	0.835252	-3.565857	25183.108941			
HLA B*4601	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.401375
	0.835252	-3.566123	25198.508522			
HLA B*0802	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.452915
	0.886699	-3.566217	28373.668376			
HLA B*1509	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.342903
	0.776623	-3.566280	22024.355210			
HLA A*0219	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.279956
	0.713674	-3.566282	19052.668036			
HLA B*5301	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.566555
	1.000164	-3.566391	36860.004092			
HLA A*0202	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.352987
	0.786460	-3.566528	22541.727343			
HLA A*2902	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.402463
	0.835252	-3.567211	25261.704321			

HLA B*4601	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.405303
	0.837899	-3.567404	25427.471426		
HLA A*2301	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.405317
	0.837899	-3.567418	25428.296798		
HLA A*6901	1:128-136 9	TYKAFDWDQ	0.746622	0.061608	-4.375996
	0.808230	-3.567766	23768.167481		
HLA B*5701	1:207-215 9	LPEAAGPTQ	1.054236	-0.218984	-4.403024
	0.835252	-3.567772	25294.387908		
HLA B*1801	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.432771
	0.864656	-3.568115	27087.629719		
HLA B*0702	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.377236
	0.809025	-3.568212	23836.156441		
HLA B*1501	1:17-25 9	CSGVATAAP	0.698375	-0.030411	-4.236288
	0.667964	-3.568324	17230.118819		
HLA B*3801	1:116-124 9	VYQNAGGTH	1.000005	-0.059940	-4.508408
	0.940065	-3.568343	32240.960742		
HLA B*7301	1:122-130 9	GTHPTTTYK	0.923012	0.114876	-4.606250
	1.037888	-3.568362	40387.775006		
HLA B*0801	1:135-143 9	DQAYRKPIIT	1.136670	-0.428671	-4.276366
	0.707999	-3.568367	18895.821926		
HLA A*3201	1:180-188 9	AGLDPVNYQ	1.025360	-0.030868	-4.562928
	0.994492	-3.568436	36553.399609		
HLA A*0101	1:117-125 9	YQNAGGTHP	0.729126	0.047497	-4.345069
	0.776623	-3.568447	22134.485315		
HLA A*8001	1:183-191 9	DPVNYQNFA	1.302206	-0.446189	-4.424541
	0.856017	-3.568524	26579.129806		
HLA A*2402	1:214-222 9	TQVLVPRSA	1.194247	-0.237529	-4.525244
	0.956718	-3.568526	33515.398250		
HLA A*0211	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.556648
	0.987852	-3.568796	36028.617771		
HLA B*4402	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.377936
	0.809025	-3.568912	23874.614820		

HLA A*2601	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.378463
	0.809025	-3.569438	23903.563977			
HLA A*3301	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.583002
	1.013420	-3.569582	38282.630718			
HLA B*5701	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.425720
	0.856017	-3.569703	26651.410563			
HLA B*0801	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.356234
	0.786460	-3.569775	22710.891406			
HLA B*1517	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.423411
	0.853458	-3.569953	26510.056654			
HLA B*4501	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.607920
	1.037888	-3.570032	40543.422956			
HLA A*2403	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.349860
	0.779687	-3.570173	22379.997200			
HLA A*6802	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.356725
	0.786460	-3.570266	22736.584380			
HLA A*0206	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.479704
	0.909340	-3.570365	30178.963271			
HLA B*3801	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.543192
	0.972498	-3.570694	34929.478388			
HLA A*0202	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.525331
	0.954583	-3.570748	33522.107561			
HLA B*3801	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.457582
	0.886699	-3.570883	28680.159729			
HLA A*3001	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.296524
	0.725355	-3.571170	19793.580825			
HLA B*1503	1:105-113	9	PPRGQTQAVV	0.903475	-0.180338	-4.294384
	0.723137	-3.571247	19696.269954			
HLA A*2603	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.584764
	1.013420	-3.571344	38438.274852			
HLA A*2501	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.267741
	0.696230	-3.571510	18524.258298			

HLA A*0301	1:78-869	LSAATSSTP	0.733359	0.025119	-4.330054	
	0.758478	-3.571576	21382.272959			
HLA A*0201	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.362192
	0.790540	-3.571653	23024.620177			
HLA A*2602	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.273474
	0.701666	-3.571808	18770.401896			
HLA A*2601	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.339198
	0.767355	-3.571843	21837.255976			
HLA B*4501	1:56-649	LPSYYPDQK	0.981412	0.093835	-4.647150	
	1.075247	-3.571902	44376.164536			
HLA B*5401	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.557851
	0.985844	-3.572006	36128.550451			
HLA B*1502	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.557883
	0.985844	-3.572039	36131.286875			
HLA B*3501	1:88-969	EAPYELNIT	1.024679	-0.321774	-4.274994	
	0.702905	-3.572088	18836.217141			
HLA A*3201	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.527093
	0.954978	-3.572115	33658.397030			
HLA B*3901	1:78-869	LSAATSSTP	0.733359	0.025119	-4.330902	
	0.758478	-3.572424	21424.072699			
HLA A*0219	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.279361
	0.706847	-3.572514	19026.608450			
HLA B*3901	1:14-229	LLCCSGVAT	1.136854	-0.272198	-4.437219	
	0.864656	-3.572563	27366.457260			
HLA B*0801	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.363130
	0.790540	-3.572590	23074.373552			
HLA A*0101	1:78-869	LSAATSSTP	0.733359	0.025119	-4.331179	
	0.758478	-3.572701	21437.753485			
HLA B*0802	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.425706
	0.852998	-3.572708	26650.545490			
HLA B*3801	1:13-219	VLLCCSGVA	1.166577	-0.167513	-4.572523	
	0.999064	-3.573459	37369.997690			

HLA B*3501	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.280440
	0.706847	-3.573593	19073.912873			
HLA A*2601	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.353304
	0.779687	-3.573617	22558.196369			
HLA A*6901	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.154890
	0.581216	-3.573674	14285.332866			
HLA B*1502	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.528487
	0.954583	-3.573904	33766.548717			
HLA B*1501	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.271679
	0.697746	-3.573933	18692.981017			
HLA B*1517	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.360604
	0.786460	-3.574145	22940.570964			
HLA B*4501	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.650244
	1.076055	-3.574190	44693.465914			
HLA B*0802	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.469439
	0.895143	-3.574297	29474.022895			
HLA B*2705	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.427501
	0.852998	-3.574503	26760.924283			
HLA A*2403	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.427548
	0.852998	-3.574550	26763.819912			
HLA B*2705	1:14-22 9		LLCCSGVAT	1.136854	-0.272198	-4.439251
	0.864656	-3.574595	27494.820184			
HLA B*5101	1:81-89 9		ATSSTPREA	0.999596	-0.112897	-4.461855
	0.886699	-3.575156	28963.782594			
HLA B*3501	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.323327
	0.748062	-3.575266	21053.644904			
HLA B*1502	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.552602
	0.977336	-3.575266	35694.539848			
HLA A*6801	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.431385
	0.856017	-3.575368	27001.308320			
HLA A*2603	1:56-64 9		LPSYYPDQK	0.981412	0.093835	-4.650834
	1.075247	-3.575586	44754.195597			

HLA A*0301	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.352247
	0.776623	-3.575624	22503.346358			
HLA B*7301	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.352748
	0.776623	-3.576125	22529.292053			
HLA B*5101	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.355858
	0.779687	-3.576171	22691.241766			
HLA A*0211	1:91-99	9	YELNITSAT	0.787532	-0.429583	-3.934433
	0.357949	-3.576484	8598.713673			
HLA B*1801	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.356204
	0.779687	-3.576516	22709.294238			
HLA B*0801	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.317233
	0.740601	-3.576632	20760.257197			
HLA B*4001	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.319397
	0.742712	-3.576684	20863.953461			
HLA A*1101	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.441443
	0.864656	-3.576787	27633.949096			
HLA B*4501	1:220-228	9	RSAIDSMILA	1.010961	-0.163626	-4.424153
	0.847335	-3.576818	26555.415018			
HLA A*0219	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.353445
	0.776623	-3.576823	22565.519798			
HLA A*0201	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.330944
	0.754093	-3.576851	21426.159034			
HLA A*2501	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.486222
	0.909340	-3.576882	30635.275334			
HLA B*4002	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.614889
	1.037888	-3.577001	41199.219117			
HLA B*4001	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.414920
	0.837899	-3.577020	25996.783479			
HLA A*3001	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.225309
	0.648272	-3.577037	16799.994089			
HLA A*2403	1:153-161	9	DPLPVVFPI	0.780193	-0.026100	-4.331271
	0.754093	-3.577178	21442.277021			

HLA B*4403	1:123-131	9	THPTTTYKA	1.324444	-0.257206	-4.644424
	1.067238	-3.577187	44098.555160			
HLA A*2601	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.367937
	0.790540	-3.577397	23331.194032			
HLA A*0101	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.368061
	0.790540	-3.577522	23337.884608			
HLA A*2902	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.291217
	0.713674	-3.577543	19553.156766			
HLA B*4402	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.413233
	0.835252	-3.577981	25896.000026			
HLA B*4402	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.386399
	0.808230	-3.578169	24344.408036			
HLA B*5801	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.345572
	0.767355	-3.578218	22160.125608			
HLA A*2403	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.413491
	0.835252	-3.578239	25911.415006			
HLA B*0801	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.387508
	0.809025	-3.578484	24406.650128			
HLA B*1502	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.280191
	0.701666	-3.578525	19062.978107			
HLA B*3801	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.535260
	0.956718	-3.578542	34297.324214			
HLA B*1501	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.416651
	0.837899	-3.578752	26100.641859			
HLA A*0201	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.355442
	0.776623	-3.578820	22669.524159			
HLA A*2301	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.546002
	0.967178	-3.578824	35156.212777			
HLA A*2602	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.533449
	0.954583	-3.578866	34154.567162			
HLA A*2902	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.432348
	0.853458	-3.578890	27061.265164			

HLA A*3002	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.535707
	0.956718	-3.578988	34332.595836			
HLA B*3901	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.426324
	0.847335	-3.578989	26688.490897			
HLA B*4801	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.435196
	0.856017	-3.579178	27239.283054			
HLA B*4601	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.383498
	0.804086	-3.579412	24182.300001			
HLA B*1503	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.414729
	0.835252	-3.579477	25985.394158			
HLA B*5301	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.593149
	1.013420	-3.579729	39187.648132			
HLA B*5401	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.534814
	0.954978	-3.579836	34262.088829			
HLA A*2603	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.582273
	1.002409	-3.579865	38218.482039			
HLA B*5701	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.388150
	0.808230	-3.579920	24442.722935			
HLA A*3001	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.287361
	0.707433	-3.579928	19380.339352			
HLA B*1517	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.384101
	0.804086	-3.580016	24215.945040			
HLA B*4402	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.360005
	0.779687	-3.580318	22908.945767			
HLA A*0216	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.433972
	0.853458	-3.580514	27162.615807			
HLA A*3201	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.520599
	0.940065	-3.580535	33158.849414			
HLA B*5101	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.505300
	0.924700	-3.580600	32011.026883			
HLA A*0216	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.489960
	0.909340	-3.580620	30900.095278			

HLA B*7301	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.568515
	0.987852	-3.580663	37026.686551		
HLA A*2402	1:220-228	9	RSAIDSMLA	1.010961	-0.163626
	0.847335	-3.581054	26815.704709		-4.428389
HLA B*5301	1:89-97 9	APYELNITS	1.361001	-1.037258	-3.904900
	0.323743	-3.581158	8033.419779		
HLA B*1509	1:134-142	9	WDQAYRKPI	0.842101	0.011357
	0.853458	-3.581273	27210.121098		-4.434730
HLA A*0211	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.419348
	0.837899	-3.581449	26263.245679		
HLA B*5701	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.340025
	0.758478	-3.581547	21878.879866		
HLA A*3201	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.446405
	0.864656	-3.581749	27951.496562		
HLA B*3901	1:41-49 9	CQIQMSDPA	0.720301	-0.119784	-4.182314
	0.600517	-3.581796	15216.457361		
HLA B*5301	1:160-168	9	PIVQGELSK	0.947962	0.037882
	0.985844	-3.581858	36957.444023		-4.567702
HLA B*4801	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984
	0.835252	-3.581907	26131.159227		-4.417159
HLA B*3501	1:65-73 9	SLENYIAQT	1.098356	-0.294270	-4.386129
	0.804086	-3.582043	24329.267184		
HLA B*4002	1:112-120	9	VVLKVYQNA	1.087232	-0.069403
	1.017829	-3.582056	39800.192567		-4.599885
HLA A*2402	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868
	0.994492	-3.582131	37724.450486		-4.576623
HLA B*2705	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.391375
	0.809025	-3.582351	24624.953997		
HLA B*5801	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.357656
	0.775271	-3.582385	22785.345543		
HLA A*0206	1:68-76 9	NYIAQTRDK	0.633507	0.291193	-4.507095
	0.924700	-3.582395	32143.607228		

HLA A*3002	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.549862
	0.967178	-3.582684	35470.089814			
HLA A*2301	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.537314
	0.954256	-3.583058	34459.874287			
HLA B*4501	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.629949
	1.046875	-3.583074	42652.960787			
HLA A*2603	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.538063
	0.954978	-3.583085	34519.394919			
HLA B*5701	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.421064
	0.837899	-3.583164	26367.170065			
HLA A*6901	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.286093
	0.702905	-3.583187	19323.805406			
HLA B*5301	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.582353
	0.999064	-3.583290	38225.512449			
HLA A*3301	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.538338
	0.954978	-3.583360	34541.251129			
HLA B*1509	1:135-143	9	DQAYRKPIT	1.136670	-0.428671	-4.291468
	0.707999	-3.583469	19564.478546			
HLA A*2602	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.583700
	1.000164	-3.583535	38344.190282			
HLA A*3002	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.297297
	0.713674	-3.583623	19828.841870			
HLA B*0702	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.370204
	0.786460	-3.583745	23453.314023			
HLA A*0211	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.351204
	0.767355	-3.583849	22449.358392			
HLA B*4601	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.363572
	0.779687	-3.583884	23097.853493			
HLA A*2402	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.504637
	0.920569	-3.584068	31962.228454			
HLA A*8001	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.422041
	0.837899	-3.584142	26426.576569			

HLA B*7301	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.584393
	1.000164	-3.584228	38405.433295			
HLA A*2501	1:153-161	9	DLPVVFPI	0.780193	-0.026100	-4.338350
	0.754093	-3.584257	21794.650088			
HLA A*6901	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.280806
	0.696230	-3.584576	19090.016957			
HLA B*3901	1:154-162	9	PLPVVFPIV	1.026322	-0.131179	-4.479798
	0.895143	-3.584655	30185.494572			
HLA B*5301	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.579510
	0.994492	-3.585019	37976.106741			
HLA A*2402	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.552294
	0.967178	-3.585116	35669.252250			
HLA A*0202	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.540098
	0.954978	-3.585120	34681.496465			
HLA B*4403	1:122-130	9	GTHPTTTYK	0.923012	0.114876	-4.623166
	1.037888	-3.585278	41991.967170			
HLA B*2705	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.376003
	0.790540	-3.585463	23768.553233			
HLA A*2402	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.540154
	0.954583	-3.585571	34685.999710			
HLA A*0211	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.525656
	0.940065	-3.585591	33547.143328			
HLA A*2902	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.328348
	0.742712	-3.585636	21298.457086			
HLA B*1509	1:154-162	9	PLPVVFPIV	1.026322	-0.131179	-4.481029
	0.895143	-3.585887	30271.185265			
HLA A*0202	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.573752
	0.987852	-3.585900	37475.881037			
HLA B*0802	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.450632
	0.864656	-3.585976	28224.859523			
HLA A*2602	1:13-21	9	VLLCCSGVA	1.166577	-0.167513	-4.585053
	0.999064	-3.585989	38463.860821			

HLA A*6901	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.353380
	0.767355	-3.586025	22562.101902			
HLA A*6801	1:53-619		NISLPSYYP	0.515820	0.118220	-4.220403
	0.634040	-3.586364	16611.291684			
HLA A*3002	1:25-339		PKTYCEELK	0.921220	0.066632	-4.574447
	0.987852	-3.586596	37535.940259			
HLA A*0203	1:90-989		PYELNITSA	1.095994	-0.320723	-4.361896
	0.775271	-3.586626	23008.930884			
HLA A*0202	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.572758
	0.985844	-3.586914	37390.219914			
HLA A*0216	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.424997
	0.837899	-3.587097	26607.039737			
HLA A*1101	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.482373
	0.895143	-3.587230	30365.003217			
HLA A*3002	1:82-909		TSSTPREAP	0.792178	0.117162	-4.496658
	0.909340	-3.587319	31380.380139			
HLA B*5301	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.541601
	0.954256	-3.587346	34801.783334			
HLA B*5101	1:82-909		TSSTPREAP	0.792178	0.117162	-4.496722
	0.909340	-3.587382	31384.964112			
HLA A*0101	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.373996
	0.786460	-3.587537	23658.994717			
HLA B*4403	1:56-649		LPSYYPDQK	0.981412	0.093835	-4.662912
	1.075247	-3.587665	46016.380769			
HLA B*4601	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.364542
	0.776623	-3.587919	23149.518358			
HLA A*3301	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.528127
	0.940065	-3.588063	33738.611268			
HLA B*4403	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.664228
	1.076055	-3.588174	46156.000524			
HLA A*0201	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.396671
	0.808230	-3.588441	24927.066199			

HLA A*2402	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.560989
	0.972498	-3.588491	36390.619518			
HLA A*2602	1:82-90 9	TSSTPREAP	0.792178	0.117162	-4.498026	
	0.909340	-3.588686	31479.338713			
HLA A*2403	1:65-73 9	SLENYIAQT	1.098356	-0.294270	-4.393055	
	0.804086	-3.588970	24720.389518			
HLA A*0212	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.337062
	0.748062	-3.589001	21730.132931			
HLA A*3001	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.295944
	0.706847	-3.589097	19767.149462			
HLA A*3001	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.285557	
	0.696230	-3.589327	19299.985061			
HLA B*3501	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-3.373602
	-0.215742	-3.589344	2363.752601			
HLA A*0211	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.442836
	0.853458	-3.589378	27722.742932			
HLA A*0202	1:31-39 9	ELKGTDTGQ	0.941370	-0.200769	-4.330409	
	0.740601	-3.589808	21399.747130			
HLA A*3001	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.297878
	0.707999	-3.589879	19855.355724			
HLA B*2705	1:82-90 9	TSSTPREAP	0.792178	0.117162	-4.499273	
	0.909340	-3.589934	31569.897882			
HLA A*3002	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.544562
	0.954583	-3.589979	35039.818666			
HLA A*0250	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.510586
	0.920569	-3.590017	32403.054211			
HLA B*0803	1:154-162	9	PLPVVFPIV	1.026322	-0.131179	-4.485461
	0.895143	-3.590318	30581.624732			
HLA B*5401	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.562836
	0.972498	-3.590338	36545.688179			
HLA A*0250	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.128120
	0.537766	-3.590354	13431.370599			

HLA A*6802	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.428295	
	0.837899	-3.590396	26809.902537			
HLA A*6801	1:15-23 9	LCCSGVATA	1.215808	-0.196223	-4.610077	
	1.019585	-3.590493	40745.273683			
HLA A*0219	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.381120
	0.790540	-3.590580	24050.268310			
HLA B*0801	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.349148	
	0.758478	-3.590670	22343.342040			
HLA B*1517	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.426004
	0.835252	-3.590752	26668.862197			
HLA A*0202	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.444222
	0.853458	-3.590765	27811.370710			
HLA A*6801	1:104-112	9	IPPRGTQAV	1.002370	0.073685	-4.666939
	1.076055	-3.590885	46445.054337			
HLA B*5401	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.371113
	0.779687	-3.591426	23502.467954			
HLA B*4601	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.377913
	0.786460	-3.591453	23873.323265			
HLA A*0212	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.426813
	0.835252	-3.591561	26718.539209			
HLA A*0201	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.339677
	0.748062	-3.591616	21861.369255			
HLA A*2501	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.456412	
	0.864656	-3.591756	28602.995791			
HLA A*2602	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.548598
	0.956718	-3.591880	35367.003486			
HLA B*4601	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.400301
	0.808230	-3.592071	25136.286710			
HLA A*2403	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.448174
	0.856017	-3.592157	28065.593316			
HLA B*1501	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.334971
	0.742712	-3.592259	21625.758131			

HLA A*0301	1:90-98 9		PYELNITSA	1.095994	-0.320723	-4.367662
	0.775271	-3.592391	23316.431062			
HLA A*3101	1:27-35 9		TYCEELKGT	0.991738	-0.153839	-4.430391
	0.837899	-3.592492	26939.589627			
HLA B*4501	1:13-21 9		VLLCCSGVA	1.166577	-0.167513	-4.591695
	0.999064	-3.592631	39056.639095			
HLA B*4403	1:103-111	9	AIPPRGTQA	1.171695	-0.095962	-4.668408
	1.075733	-3.592675	46602.359247			
HLA A*2902	1:27-35 9		TYCEELKGT	0.991738	-0.153839	-4.430600
	0.837899	-3.592701	26952.563628			
HLA B*4001	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.401192
	0.808230	-3.592962	25187.877716			
HLA B*1509	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.560160
	0.967178	-3.592982	36321.190999			
HLA B*0803	1:82-90 9		TSSTPREAP	0.792178	0.117162	-4.503072
	0.909340	-3.593733	31847.276197			
HLA B*3901	1:65-73 9		SLENYIAQT	1.098356	-0.294270	-4.397841
	0.804086	-3.593755	24994.313371			
HLA A*6802	1:19-27 9		GVATAAPKT	1.007855	-0.294181	-4.307442
	0.713674	-3.593768	20297.494184			
HLA B*0702	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.402221
	0.808230	-3.593991	25247.631951			
HLA B*1801	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.402449
	0.808230	-3.594219	25260.884356			
HLA B*4403	1:2-10 9		RIKIFMLVT	1.197683	-0.125710	-4.666268
	1.071973	-3.594295	46373.248799			
HLA B*3501	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.292124
	0.697746	-3.594378	19594.030666			
HLA B*1801	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.489558
	0.895143	-3.594415	30871.523095			
HLA B*3801	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.561755
	0.967178	-3.594577	36454.855510			

HLA B*4403	1:8-16	9	LVTAVVLLC	0.979168	0.067707	-4.641480
	1.046875	-3.594606	43800.639950			
HLA B*1801	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.447751
	0.852998	-3.594753	28038.276903			
HLA A*2501	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.442249
	0.847335	-3.594914	27685.274034			
HLA B*5401	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.562228
	0.967178	-3.595050	36494.517633			
HLA B*1517	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.490376
	0.895143	-3.595233	30929.697847			
HLA B*4403	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.572937
	0.977336	-3.595600	37405.596123			
HLA A*3301	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.449142
	0.852998	-3.596144	28128.217761			
HLA A*0212	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.434070
	0.837899	-3.596171	27168.788272			
HLA A*6801	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.443602
	0.847335	-3.596267	27771.678563			
HLA A*3001	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.068819
	0.472542	-3.596277	11717.078266			
HLA A*0202	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.563529
	0.967178	-3.596351	36604.058639			
HLA B*4402	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.373024
	0.776623	-3.596401	23606.065102			
HLA B*4001	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.376163
	0.779687	-3.596475	23777.298638			
HLA A*2902	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.344639
	0.748062	-3.596578	22112.582803			
HLA B*1801	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.483447
	0.886699	-3.596748	30440.168079			
HLA B*1502	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.521497
	0.924700	-3.596797	33227.445606			

HLA A*1101	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.450298
	0.853458	-3.596840	28203.185392			
HLA A*2603	1:14-229	LLCCSGVAT	1.136854	-0.272198	-4.461630	
	0.864656	-3.596974	28948.744177			
HLA A*0201	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.383514
	0.786460	-3.597055	24183.215783			
HLA B*0802	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.351307
	0.754093	-3.597214	22454.702764			
HLA A*0212	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.387774
	0.790540	-3.597234	24421.574901			
HLA B*5701	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.384073
	0.786460	-3.597614	24214.373024			
HLA A*0206	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.364970
	0.767355	-3.597615	23172.322594			
HLA B*4402	1:27-359	TYCEELKGT	0.991738	-0.153839	-4.435785	
	0.837899	-3.597886	27276.295915			
HLA A*0203	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.352296
	0.754093	-3.598204	22505.903056			
HLA B*0803	1:14-229	LLCCSGVAT	1.136854	-0.272198	-4.462971	
	0.864656	-3.598316	29038.306460			
HLA A*2603	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.555205
	0.956718	-3.598487	35909.141064			
HLA A*0216	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.454511
	0.856017	-3.598494	28478.085451			
HLA B*5101	1:14-229	LLCCSGVAT	1.136854	-0.272198	-4.463333	
	0.864656	-3.598677	29062.509019			
HLA A*2402	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.378385
	0.779687	-3.598698	23899.296942			
HLA B*4601	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.346803
	0.748062	-3.598742	22223.033855			
HLA B*0802	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.446570
	0.847335	-3.599234	27962.083581			

HLA A*2501	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.452706
	0.853458	-3.599249	28360.010307			
HLA A*2601	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.407538
	0.808230	-3.599308	25558.627895			
HLA B*0801	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.437263
	0.837899	-3.599364	27369.270345			
HLA B*5801	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.351314
	0.751912	-3.599402	22455.067200			
HLA B*4501	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.619355
	1.019585	-3.599771	41625.106296			
HLA A*2403	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.358729
	0.758478	-3.600251	22841.747887			
HLA A*2602	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.540638
	0.940065	-3.600574	34724.676625			
HLA B*4801	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.409156
	0.808230	-3.600926	25654.073244			
HLA B*0801	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.409222
	0.808230	-3.600992	25657.959538			
HLA B*1509	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.349202
	0.748062	-3.601140	22346.122338			
HLA A*0211	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.391869
	0.790540	-3.601329	24652.945732			
HLA B*4801	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.349423
	0.748062	-3.601361	22357.488892			
HLA A*6801	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.578876
	0.977336	-3.601540	37920.676671			
HLA A*2601	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.378176
	0.776623	-3.601553	23887.792675			
HLA A*6901	1:94-102	9	NITSATYQS	1.243610	-0.899139	-3.946106
	0.344471	-3.601635	8832.949128			
HLA A*2501	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.437033
	0.835252	-3.601781	27354.763848			

HLA A*2601	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.315478
	0.713674	-3.601803	20676.530403			
HLA A*0203	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.437228
	0.835252	-3.601976	27367.049464			
HLA A*3001	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.304978
	0.702905	-3.602072	20182.632664			
HLA A*3301	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.556659
	0.954583	-3.602076	36029.592339			
HLA A*0219	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.342743
	0.740601	-3.602143	22016.254547			
HLA A*0219	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.440054
	0.837899	-3.602155	27545.737696			
HLA A*0202	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.026186
	0.423714	-3.602472	10621.493215			
HLA A*8001	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.437761
	0.835252	-3.602509	27400.678073			
HLA B*5801	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.350610
	0.748062	-3.602548	22418.652930			
HLA B*0702	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.440588
	0.837899	-3.602689	27579.585877			
HLA A*3301	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.575206
	0.972498	-3.602708	37601.587682			
HLA A*2601	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.305880
	0.702905	-3.602975	20224.603594			
HLA A*2402	1:90-989		PYELNITSA	1.095994	-0.320723	-4.378254
	0.775271	-3.602983	23892.057656			
HLA A*0219	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.438302
	0.835252	-3.603050	27434.793258			
HLA B*1501	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.411351
	0.808230	-3.603121	25784.027122			
HLA B*0801	1:90-989		PYELNITSA	1.095994	-0.320723	-4.378547
	0.775271	-3.603276	23908.219793			

HLA A*2403	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.370688
	0.767355	-3.603334	23479.465838			
HLA B*4801	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.355480
	0.751912	-3.603568	22671.486477			
HLA B*4801	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.441690
	0.837899	-3.603790	27649.650698			
HLA B*0803	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.383488
	0.779687	-3.603801	24181.776712			
HLA A*0202	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.185034
	0.581216	-3.603818	15312.082382			
HLA A*2902	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.380594
	0.776623	-3.603971	24021.141482			
HLA A*2501	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.408529
	0.804086	-3.604443	25617.044214			
HLA A*0250	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.561314
	0.956718	-3.604595	36417.797614			
HLA A*0203	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.330129
	0.725355	-3.604774	21385.974902			
HLA B*1503	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.408872
	0.804086	-3.604786	25637.285671			
HLA B*4601	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.363374
	0.758478	-3.604896	23087.359504			
HLA B*7301	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.582421
	0.977336	-3.605085	38231.509998			
HLA B*0803	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.491865
	0.886699	-3.605166	31035.964818			
HLA B*0702	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.345864
	0.740601	-3.605263	22174.996189			
HLA A*0201	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.372702
	0.767355	-3.605347	23588.575835			
HLA A*2601	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.312336
	0.706847	-3.605489	20527.516169			

HLA A*6802	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.440851
	0.835252	-3.605599	27596.301621			
HLA A*2402	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.459151
	0.853458	-3.605693	28783.991762			
HLA A*3001	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.272510
	0.666762	-3.605748	18728.814260			
HLA B*0802	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.414913
	0.809025	-3.605888	25996.361563			
HLA A*6802	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.357891
	0.751912	-3.605978	22797.675497			
HLA A*0219	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.373517
	0.767355	-3.606162	23632.898642			
HLA B*5701	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.396953
	0.790540	-3.606413	24943.253772			
HLA A*3101	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.364894
	0.758478	-3.606416	23168.311431			
HLA B*4501	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.600926
	0.994492	-3.606434	39895.691337			
HLA A*0201	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.332244
	0.725355	-3.606889	21490.354982			
HLA A*3001	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-3.572171
	0.035101	-3.607272	3733.972320			-
HLA A*0301	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.347908
	0.740601	-3.607307	22279.611103			
HLA A*6802	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.415704
	0.808230	-3.607474	26043.799608			
HLA B*4403	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.607758
	1.000164	-3.607594	40528.291636			
HLA B*2705	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.463639
	0.856017	-3.607621	29082.955452			
HLA A*0219	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.278678
	0.671022	-3.607656	18996.678849			

HLA B*5701	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.375086
	0.767355	-3.607732	23718.457856			
HLA A*3201	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.575039
	0.967178	-3.607861	37587.147605			
HLA A*2601	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.366628
	0.758478	-3.608150	23260.995770			
HLA B*4403	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.602733
	0.994492	-3.608241	40062.011304			
HLA A*3001	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.256877
	0.648415	-3.608462	18066.615815			
HLA A*0211	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.333879
	0.725355	-3.608524	21571.424777			
HLA B*1509	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.455935
	0.847335	-3.608599	28571.601009			
HLA B*7301	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.603268
	0.994492	-3.608777	40111.456469			
HLA A*0216	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.399319
	0.790540	-3.608779	25079.509399			
HLA A*0216	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.376160
	0.767355	-3.608806	23777.170006			
HLA B*0802	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.444236
	0.835252	-3.608984	27812.273463			
HLA B*3501	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.446981
	0.837899	-3.609082	27988.568676			
HLA A*8001	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.351817
	0.742712	-3.609105	22481.078850			
HLA A*0250	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.597148
	0.987852	-3.609296	39550.139832			
HLA A*3201	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.534024
	0.924700	-3.609324	34199.866420			
HLA A*0216	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.334746
	0.725355	-3.609391	21614.529724			

HLA A*3301	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.604145
	0.994492	-3.609653	40192.478641			
HLA A*3301	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.587076
	0.977336	-3.609740	38643.440106			
HLA B*4601	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.377410
	0.767355	-3.610055	23845.700722			
HLA A*6801	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.368935
	0.758478	-3.610458	23384.898896			
HLA B*5301	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.583044
	0.972498	-3.610546	38286.358785			
HLA A*0211	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.324422
	0.713674	-3.610748	21106.788277			
HLA A*6802	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.419774
	0.809025	-3.610749	26288.974979			
HLA B*4001	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.397249
	0.786460	-3.610790	24960.262039			
HLA A*0206	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.551086
	0.940065	-3.611022	35570.205140			
HLA A*0202	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.538709
	0.927533	-3.611176	34570.788316			
HLA A*0250	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.566205
	0.954978	-3.611227	36830.304192			
HLA B*1509	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.467327
	0.856017	-3.611310	29331.024287			
HLA A*0212	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.336874
	0.725355	-3.611520	21720.730357			
HLA A*6901	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.386930
	0.775271	-3.611659	24374.190563			
HLA A*8001	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.391493
	0.779687	-3.611806	24631.615812			
HLA A*6901	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.334990
	0.723137	-3.611854	21626.694095			

HLA B*4403	1:112-120	9	VVLKVYQNA	1.087232	-0.069403	-4.629757
	1.017829	-3.611928	42634.043665			
HLA B*1501	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.292089
	0.680076	-3.612012	19592.440708			
HLA A*1101	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.379459
	0.767355	-3.612104	23958.456737			
HLA B*4002	1:21-29	9	ATAAPKTYC	0.926919	0.086501	-4.625617
	1.013420	-3.612197	42229.577177			
HLA A*0201	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.364215
	0.751912	-3.612303	23132.117052			
HLA A*2402	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.566628
	0.954256	-3.612372	36866.186275			
HLA A*2402	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.465466
	0.852998	-3.612469	29205.620483			
HLA B*0702	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.355257
	0.742712	-3.612544	22659.837699			
HLA B*4501	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.392397
	0.779687	-3.612710	24682.972186			
HLA B*2705	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.355508
	0.742712	-3.612796	22672.958328			
HLA B*4601	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.403367
	0.790540	-3.612827	25314.374416			
HLA B*1517	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.465859
	0.852998	-3.612861	29232.018267			
HLA A*0301	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.326546
	0.713674	-3.612872	21210.264687			
HLA A*3002	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.301369
	0.688457	-3.612912	20015.618140			
HLA A*3201	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.567281
	0.954256	-3.613026	36921.672860			
HLA B*1503	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.177572
	0.564331	-3.613242	15051.240409			

HLA A*2501	1:88-96 9	EAPYELNIT	1.024679	-0.321774	-4.316185
	0.702905	-3.613279	20710.227010		
HLA A*0211	1:16-24 9	CCSGVATAA	0.892838	-0.221816	-4.284342
	0.671022	-3.613320	19246.080107		
HLA A*0212	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.371835
	0.758478	-3.613357	23541.534131		
HLA B*4501	1:177-185 9	APNAGLDPV	0.672482	0.029184	-4.315097
	0.701666	-3.613431	20658.417388		
HLA B*4801	1:135-143 9	DQAYRKPI	1.136670	-0.428671	-4.321758
	0.707999	-3.613759	20977.698427		
HLA A*2601	1:153-161 9	DPLPVVFP	0.780193	-0.026100	-4.367993
	0.754093	-3.613900	23334.223489		
HLA A*0250	1:211-219 9	AGPTQVLVP	0.915670	0.051508	-4.581136
	0.967178	-3.613958	38118.542185		
HLA B*4601	1:153-161 9	DPLPVVFP	0.780193	-0.026100	-4.368144
	0.754093	-3.614051	23342.303964		
HLA A*0301	1:149-157 9	QADTDPLPV	0.679726	0.062986	-4.356779
	0.742712	-3.614067	22739.413611		
HLA A*0212	1:19-27 9	GVATAAPKT	1.007855	-0.294181	-4.327796
	0.713674	-3.614122	21271.397052		
HLA B*1501	1:177-185 9	APNAGLDPV	0.672482	0.029184	-4.315811
	0.701666	-3.614146	20692.420304		
HLA A*0101	1:208-216 9	PEAAGPTQV	0.855949	-0.104037	-4.366414
	0.751912	-3.614502	23249.547203		
HLA B*4402	1:111-119 9	AVVLKVYQN	1.224563	-0.434023	-4.405125
	0.790540	-3.614585	25417.019030		
HLA B*1501	1:208-216 9	PEAAGPTQV	0.855949	-0.104037	-4.366516
	0.751912	-3.614603	23254.956263		
HLA A*0301	1:153-161 9	DPLPVVFP	0.780193	-0.026100	-4.368752
	0.754093	-3.614659	23375.033221		
HLA A*0101	1:169-177 9	QTGQQVSIA	0.950594	-0.262137	-4.303183
	0.688457	-3.614726	20099.386862		

HLA A*2402	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.542327
	0.927533	-3.614795	34860.008587			
HLA B*1501	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.362857
	0.748062	-3.614796	23059.897837			
HLA B*5801	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.355424
	0.740601	-3.614823	22668.543063			
HLA B*0801	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.391932
	0.776623	-3.615310	24656.546977			
HLA B*3901	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.363454
	0.748062	-3.615392	23091.606496			
HLA B*5301	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.570514
	0.954978	-3.615536	37197.543586			
HLA A*2902	1:49-579		AYNINISLP	0.584960	0.117828	-4.318325
	0.702788	-3.615538	20812.547411			
HLA A*0101	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.363872
	0.748062	-3.615811	23113.853506			
HLA A*0301	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.367819
	0.751912	-3.615907	23324.883927			
HLA A*3101	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.370155
	0.754093	-3.616062	23450.649698			
HLA A*0219	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.341498
	0.725355	-3.616143	21953.219046			
HLA B*5301	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.583488
	0.967178	-3.616310	38325.525422			
HLA B*0702	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.196298
	0.579719	-3.616579	15714.395820			
HLA A*2602	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.537173
	0.920569	-3.616604	34448.690656			
HLA B*0801	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.318344
	0.701666	-3.616678	20813.448179			
HLA B*1502	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.589233
	0.972498	-3.616735	38835.831520			

HLA B*0802	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.472860
	0.856017	-3.616843	29707.100585			
HLA B*4001	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.392137
	0.775271	-3.616866	24668.154567			
HLA A*0203	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.425130
	0.808230	-3.616900	26615.245647			
HLA A*1101	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.421017
	0.804086	-3.616931	26364.317350			
HLA B*4001	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.371238
	0.754093	-3.617145	23509.207645			
HLA A*8001	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.421587
	0.804086	-3.617502	26398.998753			
HLA B*5701	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.421663
	0.804086	-3.617577	26403.569250			
HLA A*0206	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.376334
	0.758478	-3.617856	23786.690668			
HLA B*4002	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.595290
	0.977336	-3.617953	39381.257591			
HLA B*5401	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.558102
	0.940065	-3.618037	36149.469811			
HLA A*0101	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.426390
	0.808230	-3.618160	26692.533893			
HLA A*0216	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.155952
	0.537766	-3.618186	14320.307104			
HLA A*2603	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.558382
	0.940065	-3.618317	36172.749494			
HLA B*7301	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.604196
	0.985844	-3.618352	40197.262537			
HLA B*1509	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.398353
	0.779687	-3.618666	25023.807950			
HLA A*2602	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.596598
	0.977336	-3.619262	39500.104431			

HLA B*4002	1:189-197	9	NFAVTNDGV	0.789539	0.210625	-4.619586
	1.000164	-3.619421	41647.180494			
HLA A*0301	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.367582
	0.748062	-3.619520	23312.142720			
HLA B*0803	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.466886
	0.847335	-3.619550	29301.208065			
HLA A*8001	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.406231
	0.786460	-3.619772	25481.865644			
HLA A*0201	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.395177
	0.775271	-3.619906	24841.447283			
HLA A*0212	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.157963
	0.537766	-3.620198	14386.776300			
HLA B*2705	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.220963
	0.600517	-3.620445	16632.693388			
HLA A*6801	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.541179
	0.920569	-3.620610	34767.910546			
HLA B*3801	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.541256
	0.920569	-3.620687	34774.118088			
HLA A*0250	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.575324
	0.954583	-3.620741	37611.760079			
HLA A*0101	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.388098
	0.767355	-3.620743	24439.813995			
HLA A*0206	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.411327
	0.790540	-3.620787	25782.632273			
HLA A*0211	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.545549
	0.924700	-3.620849	35119.525029			
HLA B*0801	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.301240
	0.680076	-3.621163	20009.663500			
HLA B*3501	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.407780
	0.786460	-3.621320	25572.873606			
HLA B*4002	1:63-71	9	QKSLINYIA	1.220826	-0.266570	-4.575678
	0.954256	-3.621423	37642.497425			

HLA A*0250	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.575763
	0.954256	-3.621507	37649.829241			
HLA B*3501	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.398248
	0.776623	-3.621625	25017.716770			
HLA B*4002	1:15-239		LCCSGVATA	1.215808	-0.196223	-4.641229
	1.019585	-3.621645	43775.292930			
HLA B*4403	1:21-299		ATAAPKTYC	0.926919	0.086501	-4.635341
	1.013420	-3.621921	43185.828078			
HLA A*0202	1:82-909		TSSTPREAP	0.792178	0.117162	-4.531449
	0.909340	-3.622110	33997.687232			
HLA B*7301	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.594714
	0.972498	-3.622216	39329.095349			
HLA A*2501	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.430490
	0.808230	-3.622260	26945.711411			
HLA A*0202	1:153-161	9	DPLPVVFPPI	0.780193	-0.026100	-4.376496
	0.754093	-3.622403	23795.571478			
HLA B*1502	1:154-162	9	PLPVVFPPIV	1.026322	-0.131179	-4.517684
	0.895143	-3.622541	32936.977382			
HLA B*1517	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.271523
	0.648415	-3.623109	18686.307829			
HLA A*6801	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.413677
	0.790540	-3.623137	25922.491425			
HLA A*0212	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.431387
	0.808230	-3.623157	27001.454395			
HLA B*5701	1:153-161	9	DPLPVVFPPI	0.780193	-0.026100	-4.377365
	0.754093	-3.623273	23843.249799			
HLA A*3301	1:172-180	9	QQVSIAPNA	1.175074	-0.172665	-4.625758
	1.002409	-3.623349	42243.286842			
HLA A*0201	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.286452
	0.662917	-3.623535	19339.806593			
HLA A*3201	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.544402
	0.920569	-3.623833	35026.930852			

HLA B*1801	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.400496
	0.776623	-3.623873	25147.575960			
HLA B*4001	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.382422
	0.758478	-3.623944	24122.456977			
HLA B*4801	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.410437
	0.786460	-3.623977	25729.823062			
HLA A*0212	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.391378
	0.767355	-3.624023	24625.087216			
HLA B*5301	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.544611
	0.920569	-3.624042	35043.799685			
HLA A*0216	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.459668
	0.835252	-3.624416	28818.270162			
HLA A*2902	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.378524
	0.754093	-3.624431	23906.926420			
HLA A*8001	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.401229
	0.776623	-3.624606	25190.058028			
HLA A*0212	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.287538
	0.662917	-3.624620	19388.204359			
HLA A*0202	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.433730
	0.809025	-3.624705	27147.484509			
HLA A*0201	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.331861
	0.706847	-3.625014	21471.412884			
HLA B*0801	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.373122
	0.748062	-3.625061	23611.429371			
HLA A*3001	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.288066
	0.662917	-3.625149	19411.818536			
HLA A*3101	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.392531
	0.767355	-3.625177	24690.584692			
HLA A*2402	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-3.960466
	0.335272	-3.625194	9129.894972			
HLA B*0702	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.339012
	0.713674	-3.625338	21827.925137			

HLA A*0101	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.379471
	0.754093	-3.625378	23959.104809			
HLA B*1509	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.384033
	0.758478	-3.625555	24212.146176			
HLA A*3101	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.400849
	0.775271	-3.625578	25167.991081			
HLA A*2603	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.580457
	0.954583	-3.625874	38058.992011			
HLA B*5801	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.351253
	0.725355	-3.625898	22451.908957			
HLA B*5101	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.473278
	0.847335	-3.625943	29735.721120			
HLA A*6901	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.334128
	0.707999	-3.626129	21583.798420			
HLA B*5401	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.480061
	0.853458	-3.626604	30203.789734			
HLA A*2601	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.369380
	0.742712	-3.626667	23408.821460			
HLA A*0250	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.014372
	0.387379	-3.626994	10336.472783			
HLA A*8001	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.417699
	0.790540	-3.627159	26163.693799			
HLA B*4801	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.381472
	0.754093	-3.627379	24069.792623			
HLA B*0803	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.480402
	0.852998	-3.627404	30227.491906			
HLA B*1501	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.335505
	0.707999	-3.627506	21652.331845			
HLA A*2602	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.594716
	0.967178	-3.627538	39329.308116			
HLA B*3501	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.341306
	0.713674	-3.627631	21943.482518			

HLA A*2602	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.247122
	0.619394	-3.627728	17665.329713			
HLA A*2602	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.368588
	0.740601	-3.627987	23366.182953			
HLA B*0801	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.395363
	0.767355	-3.628008	24852.066320			
HLA A*6901	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.299099
	0.671022	-3.628077	19911.290305			
HLA B*4801	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.432235
	0.804086	-3.628150	27054.238951			
HLA B*5801	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.341909
	0.713674	-3.628235	21974.012671			
HLA A*0101	1:90-989		PYELNITSA	1.095994	-0.320723	-4.403539
	0.775271	-3.628268	25324.373591			
HLA A*3002	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.463608
	0.835252	-3.628356	29080.910162			
HLA A*0206	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-3.503994
	-0.124403	-3.628397	3191.491840			
HLA A*0201	1:78-869		LSAATSSTP	0.733359	0.025119	-4.387005
	0.758478	-3.628527	24378.410502			
HLA B*0801	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.336111
	0.707433	-3.628677	21682.574218			
HLA B*0802	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.437103
	0.808230	-3.628873	27359.203796			
HLA A*2601	1:90-989		PYELNITSA	1.095994	-0.320723	-4.404192
	0.775271	-3.628921	25362.488816			
HLA A*2902	1:90-989		PYELNITSA	1.095994	-0.320723	-4.404258
	0.775271	-3.628987	25366.330938			
HLA A*2403	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.309421
	0.680076	-3.629344	20390.162739			
HLA A*3001	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.251316
	0.621958	-3.629358	17836.743968			

HLA A*2601	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.381407
	0.751912	-3.629494	24066.146882			
HLA A*6802	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.354956
	0.725355	-3.629601	22644.151968			
HLA B*3801	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.464921
	0.835252	-3.629669	29168.987669			
HLA A*0250	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.353062
	0.723137	-3.629926	22545.630025			
HLA A*0201	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.318492
	0.688457	-3.630035	20820.543090			
HLA A*0212	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.416508
	0.786460	-3.630048	26092.029984			
HLA B*0801	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.382020
	0.751912	-3.630108	24100.151827			
HLA B*1517	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.486238
	0.856017	-3.630221	30636.435490			
HLA B*4001	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.331908
	0.701666	-3.630242	21473.736169			
HLA A*3101	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.373256
	0.742712	-3.630544	23618.711401			
HLA B*5401	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.478175
	0.847335	-3.630840	30072.864797			
HLA B*2705	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.466218
	0.835252	-3.630966	29256.224006			
HLA A*2403	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.421510
	0.790540	-3.630970	26394.286257			
HLA B*1801	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.339036
	0.707999	-3.631037	21829.106035			
HLA B*5301	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.587837
	0.956718	-3.631119	38711.233882			
HLA A*2501	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.406398
	0.775271	-3.631127	25491.655163			

HLA A*3001	1:53-619		NISLPSYYP	0.515820	0.118220	-4.265180
	0.634040	-3.631140	18415.346268			
HLA B*1502	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.484359
	0.852998	-3.631361	30504.130224			
HLA A*0250	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.559230
	0.927533	-3.631697	36243.462816			
HLA B*4002	1:180-188	9	AGLDPVNYQ	1.025360	-0.030868	-4.626225
	0.994492	-3.631733	42288.789099			
HLA A*2603	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.631258
	0.999064	-3.632194	42781.681146			
HLA B*7301	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.599453
	0.967178	-3.632275	39760.594386			
HLA A*0203	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.335392
	0.702905	-3.632486	21646.710013			
HLA A*0211	1:82-909		TSSTPREAP	0.792178	0.117162	-4.542078
	0.909340	-3.632739	34840.023907			
HLA A*0211	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.281091
	0.648272	-3.632818	19102.517308			
HLA B*4001	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.152588
	0.519628	-3.632960	14209.796852			
HLA B*1517	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.346735
	0.713674	-3.633061	22219.547628			
HLA B*3501	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.441347
	0.808230	-3.633117	27627.820415			
HLA B*5701	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.410026
	0.776623	-3.633403	25705.475378			
HLA A*2902	1:53-619		NISLPSYYP	0.515820	0.118220	-4.267492
	0.634040	-3.633452	18513.638640			
HLA B*1801	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.330042
	0.696230	-3.633812	21381.694588			
HLA B*4601	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.385763
	0.751912	-3.633850	24308.743338			

HLA B*4801	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.413562
	0.779687	-3.633874	25915.620684			
HLA B*5401	1:82-90 9	TSSTPREAP	0.792178	0.117162	-4.543373	
	0.909340	-3.634033	34944.031693			
HLA B*7301	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.588725
	0.954583	-3.634142	38790.476955			
HLA B*4001	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.382687
	0.748062	-3.634625	24137.207965			
HLA A*2602	1:25-33 9	PKTYCEELK	0.921220	0.066632	-4.622598	
	0.987852	-3.634746	41937.027545			
HLA A*0211	1:31-39 9	ELKGTDTGQ	0.941370	-0.200769	-4.375455	
	0.740601	-3.634854	23738.611747			
HLA A*0201	1:16-24 9	CCSGVATAA	0.892838	-0.221816	-4.306035	
	0.671022	-3.635013	20231.826132			
HLA A*6901	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.315226	
	0.680076	-3.635150	20664.565089			
HLA B*4001	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.402533
	0.767355	-3.635179	25265.804544			
HLA A*0203	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.343293
	0.707999	-3.635294	22044.142881			
HLA A*2301	1:82-90 9	TSSTPREAP	0.792178	0.117162	-4.544898	
	0.909340	-3.635558	35066.936454			
HLA B*0702	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.403095
	0.767355	-3.635740	25298.493436			
HLA B*4402	1:65-73 9	SLENYIAQT	1.098356	-0.294270	-4.439975	
	0.804086	-3.635889	27540.671503			
HLA A*0202	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.361283
	0.725355	-3.635928	22976.465635			
HLA A*2902	1:34-42 9	GTDGQACQ	0.815488	-0.167073	-4.284420	
	0.648415	-3.636005	19249.516346			
HLA B*1801	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.359220
	0.723137	-3.636084	22867.588899			

HLA B*0702	1:65-73 9	SLENYIAQT	1.098356	-0.294270	-4.440311
	0.804086	-3.636225	27561.985600		
HLA B*3901	1:186-194 9	NYQNFAVTN	1.119422	-0.431798	-4.324093
	0.687624	-3.636469	21090.808376		
HLA B*4601	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.411940
	0.775271	-3.636670	25819.062575		
HLA A*2902	1:208-216 9	PEAAGPTQV	0.855949	-0.104037	-4.388643
	0.751912	-3.636731	24470.507523		
HLA A*3001	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.083377
	0.446632	-3.636745	12116.487537		
HLA A*2603	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.474801
	0.837899	-3.636902	29840.145836		
HLA B*2705	1:95-103 9	ITSATYQSA	0.951011	-0.171324	-4.416762
	0.779687	-3.637074	26107.279177		
HLA A*3201	1:65-73 9	SLENYIAQT	1.098356	-0.294270	-4.441194
	0.804086	-3.637108	27618.106999		
HLA B*0802	1:65-73 9	SLENYIAQT	1.098356	-0.294270	-4.441316
	0.804086	-3.637230	27625.877459		
HLA B*3501	1:161-169 9	IVQGELSKQ	0.821593	-0.054238	-4.404624
	0.767355	-3.637270	25387.747704		
HLA B*1503	1:113-121 9	VLKVYQNAG	0.952015	-0.550401	-4.038990
	0.401614	-3.637376	10939.318556		
HLA B*0803	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.446511
	0.809025	-3.637486	27958.302043		
HLA B*0802	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.475489
	0.837899	-3.637590	29887.482884		
HLA B*4001	1:111-119 9	AVVLKVYQN	1.224563	-0.434023	-4.428286
	0.790540	-3.637746	26809.322389		
HLA B*1801	1:111-119 9	AVVLKVYQN	1.224563	-0.434023	-4.428387
	0.790540	-3.637847	26815.559639		
HLA B*5401	1:68-76 9	NYIAQTRDK	0.633507	0.291193	-4.562573
	0.924700	-3.637873	36523.551576		

HLA A*0212	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.326400
	0.688457	-3.637943	21203.151678			
HLA A*0250	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.485418
	0.847335	-3.638083	30578.646899			
HLA B*4801	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.428627
	0.790540	-3.638087	26830.360781			
HLA A*0216	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.446330
	0.808230	-3.638100	27946.658117			
HLA A*3201	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.626366
	0.987852	-3.638514	42302.517987			
HLA B*5801	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.327049
	0.688457	-3.638592	21234.834375			
HLA B*1501	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.414426
	0.775271	-3.639155	25967.265909			
HLA A*2902	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.326826
	0.687624	-3.639201	21223.923759			
HLA A*6901	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.326868
	0.687624	-3.639244	21225.990603			
HLA B*3801	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.548638
	0.909340	-3.639299	35370.256272			
HLA B*0802	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.382048
	0.742712	-3.639336	24101.716428			
HLA A*6901	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.346185
	0.706847	-3.639339	22191.437387			
HLA A*2602	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.593704
	0.954256	-3.639448	39237.712281			
HLA B*5801	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.346324
	0.706847	-3.639477	22198.521657			
HLA A*2501	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.430100
	0.790540	-3.639560	26921.523903			
HLA A*0101	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.310642
	0.671022	-3.639620	20447.603927			

HLA A*3101	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.380227
	0.740601	-3.639626	24000.877567			
HLA A*3201	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.594439
	0.954583	-3.639856	39304.209598			
HLA B*1501	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.394084
	0.754093	-3.639992	24779.034712			
HLA A*2403	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.388053
	0.748062	-3.639992	24437.302007			
HLA B*7301	1:82-909		TSSTPREAP	0.792178	0.117162	-4.549352
	0.909340	-3.640013	35428.474278			
HLA A*0211	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.346911
	0.706847	-3.640065	22228.564854			
HLA A*3101	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.391991
	0.751912	-3.640079	24659.881932			
HLA B*1502	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.595078
	0.954978	-3.640100	39362.087917			
HLA A*0250	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.328607
	0.688457	-3.640150	21311.135310			
HLA B*4801	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.382955
	0.742712	-3.640242	24152.098633			
HLA A*6802	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.061564
	0.421102	-3.640462	11522.961774			
HLA B*4402	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.394615
	0.754093	-3.640522	24809.348953			
HLA A*6802	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.407939
	0.767355	-3.640585	25582.282893			
HLA B*4402	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.388697
	0.748062	-3.640635	24473.552515			
HLA B*1502	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.444845
	0.804086	-3.640759	27851.270258			
HLA B*7301	1:154-162	9	PLPVVFP	1.026322	-0.131179	-4.535920
	0.895143	-3.640778	34349.501931			

HLA B*1502	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.476098
	0.835252	-3.640846	29929.389420			
HLA A*0206	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-3.734286
	0.093374	-3.640911	5423.573866			
HLA B*1501	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.354632
	0.713674	-3.640958	22627.252952			
HLA B*1503	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.408332
	0.767355	-3.640977	25605.405688			
HLA B*5701	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.416475
	0.775271	-3.641204	26090.053889			
HLA A*8001	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.393128
	0.751912	-3.641216	24724.535637			
HLA A*2403	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.366819
	0.725355	-3.641464	23271.190996			
HLA A*6901	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.339266
	0.697746	-3.641520	21840.682222			
HLA B*1502	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.629409
	0.987852	-3.641557	42599.921800			
HLA B*5101	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.400191
	0.758478	-3.641713	25129.896249			
HLA A*3301	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.382412
	0.740601	-3.641811	24121.934984			
HLA A*1101	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.497927
	0.856017	-3.641910	31472.186937			
HLA B*1503	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-3.770031
	0.127871	-3.642159	5888.851790			
HLA A*3101	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.329929
	0.687624	-3.642305	21376.143024			
HLA A*2301	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.529114
	0.886699	-3.642415	33815.357726			
HLA B*1509	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.396634
	0.754093	-3.642541	24924.908650			

HLA A*3001	1:41-49 9	CQIQMSDPA	0.720301	-0.119784	-4.243367
	0.600517	-3.642850	17513.271108		
HLA A*0212	1:115-123 9	KVYQNAGGT	0.678003	-0.098284	-4.222687
	0.579719	-3.642968	16698.870765		
HLA B*1502	1:63-71 9	QKSLENYIA	1.220826	-0.266570	-4.597832
	0.954256	-3.643576	39612.451772		
HLA A*0301	1:202-210 9	NPCELLPEA	1.188654	-0.463299	-4.369100
	0.725355	-3.643745	23393.756253		
HLA B*1503	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-3.598936
	0.044895	-3.643831	3971.334123		
HLA B*1503	1:128-136 9	TYKAFDWDQ	0.746622	0.061608	-4.452074
	0.808230	-3.643844	28318.769129		
HLA B*5801	1:105-113 9	PPRGTQAVV	0.903475	-0.180338	-4.367018
	0.723137	-3.643882	23281.894495		
HLA A*3101	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.324100
	0.680076	-3.644024	21091.150675		
HLA B*0803	1:207-215 9	LPEAAGPTQ	1.054236	-0.218984	-4.479420
	0.835252	-3.644168	30159.214689		
HLA B*3801	1:220-228 9	RSAIDSMLA	1.010961	-0.163626	-4.491755
	0.847335	-3.644420	31028.074468		
HLA A*6801	1:13-21 9	VLLCCSGVA	1.166577	-0.167513	-4.643560
	0.999064	-3.644496	44010.849361		
HLA B*0702	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.403041
	0.758478	-3.644563	25295.345805		
HLA B*1502	1:211-219 9	AGPTQVLVP	0.915670	0.051508	-4.611795
	0.967178	-3.644617	40906.725153		
HLA B*4402	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.419898
	0.775271	-3.644627	26296.513744		
HLA A*0301	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.324744
	0.680076	-3.644668	21122.437474		
HLA B*1517	1:153-161 9	DPLPVVFP	0.780193	-0.026100	-4.398870
	0.754093	-3.644777	25053.608406		

HLA A*0301	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.368228
	0.723137	-3.645092	23346.850461			
HLA A*1101	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.387804
	0.742712	-3.645092	24423.292496			
HLA B*4402	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.403572
	0.758478	-3.645094	25326.291692			
HLA A*0301	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.347931
	0.702788	-3.645143	22280.816438			
HLA A*0206	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.431636
	0.786460	-3.645177	27016.942772			
HLA A*0202	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.501597
	0.856017	-3.645580	31739.261519			
HLA A*3101	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.347254
	0.701666	-3.645589	22246.128884			
HLA A*2603	1:210-218	9	AAGPTQVLV	0.899889	0.077447	-4.622990
	0.977336	-3.645654	41974.932735			
HLA B*4001	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.386336
	0.740601	-3.645735	24340.852381			
HLA B*5101	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.432254
	0.786460	-3.645795	27055.409860			
HLA A*8001	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.399972
	0.754093	-3.645879	25117.256084			
HLA A*0250	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.585974
	0.940065	-3.645909	38545.516781			
HLA B*2705	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.400137
	0.754093	-3.646044	25126.769595			
HLA A*2601	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.394145
	0.748062	-3.646084	24782.520304			
HLA B*3801	1:154-162	9	PLPVVFP	1.026322	-0.131179	-4.541402
	0.895143	-3.646259	34785.783740			
HLA A*2301	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.499325
	0.852998	-3.646327	31573.655477			

HLA A*0101	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.369669
	0.723137	-3.646532	23424.403256			
HLA A*3002	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.502572
	0.856017	-3.646555	31810.599513			
HLA A*0202	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.571374
	0.924700	-3.646674	37271.268409			
HLA B*4403	1:15-23	9	LCCSGVATA	1.215808	-0.196223	-4.666293
	1.019585	-3.646709	46376.008496			
HLA B*1509	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.482413
	0.835252	-3.647161	30367.795958			
HLA A*0212	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.422469
	0.775271	-3.647198	26452.608986			
HLA B*3501	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.314023
	0.666762	-3.647261	20607.406267			
HLA A*0219	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.455615
	0.808230	-3.647385	28550.587330			
HLA A*2501	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.228603
	0.581216	-3.647387	16927.900861			
HLA A*0101	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.372925
	0.725355	-3.647570	23600.702051			
HLA A*2403	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.248113
	0.600517	-3.647596	17705.705258			
HLA B*5401	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.534316
	0.886699	-3.647617	34222.816285			
HLA A*0216	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.336144
	0.688457	-3.647687	21684.216485			
HLA B*3901	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.345673
	0.697746	-3.647927	22165.281212			
HLA A*2501	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.399855
	0.751912	-3.647943	25110.462924			
HLA A*3001	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.261646
	0.613638	-3.648008	18266.118214			

HLA B*5801	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.356190
	0.707999	-3.648190	22708.557121			
HLA B*4801	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.406936	
	0.758478	-3.648458	25523.255443			
HLA B*5301	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.501954
	0.853458	-3.648496	31765.371548			
HLA B*5801	1:32-40 9	LKGTDTGQA	1.058870	-0.351437	-4.356018	
	0.707433	-3.648585	22699.590785			
HLA A*3101	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.371776
	0.723137	-3.648639	23538.350419			
HLA B*5801	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.350579
	0.701666	-3.648913	22417.076314			
HLA A*2902	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.407474	
	0.758478	-3.648996	25554.894895			
HLA A*0219	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.372276
	0.723137	-3.649140	23565.489443			
HLA A*0216	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.435727
	0.786460	-3.649267	27272.607121			
HLA A*1101	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.484525
	0.835252	-3.649273	30515.849176			
HLA B*5801	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.345600	
	0.696230	-3.649370	22161.564261			
HLA A*2403	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.337868
	0.688457	-3.649411	21770.492625			
HLA A*6801	1:81-89 9	ATSSTPREA	0.999596	-0.112897	-4.536111	
	0.886699	-3.649412	34364.557216			
HLA B*1801	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.487312	
	0.837899	-3.649413	30712.272250			
HLA A*3301	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.570054
	0.920569	-3.649485	37158.122511			
HLA A*2301	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.417199
	0.767355	-3.649844	26133.562571			

HLA B*1801	1:220-228	9	RSAIDSMILA	1.010961	-0.163626	-4.497199
	0.847335	-3.649863	31419.450248			
HLA B*1509	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.514559
	0.864656	-3.649903	32700.841341			
HLA A*3002	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.514561
	0.864656	-3.649906	32701.018249			
HLA A*6802	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.426752
	0.776623	-3.650129	26714.781321			
HLA A*2602	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.605129
	0.954978	-3.650151	40283.688018			
HLA A*0101	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.391138
	0.740601	-3.650537	24611.502627			
HLA A*0219	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.330665
	0.680076	-3.650588	21412.369809			
HLA B*5101	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.353537
	0.702905	-3.650631	22570.281302			
HLA B*5801	1:49-579		AYNINISLP	0.584960	0.117828	-4.353744
	0.702788	-3.650956	22581.028900			
HLA A*2501	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.437505
	0.786460	-3.651046	27384.525261			
HLA B*4403	1:13-219		VLLCCSGVA	1.166577	-0.167513	-4.650289
	0.999064	-3.651225	44698.060097			
HLA B*3801	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.504750
	0.852998	-3.651752	31970.529313			
HLA B*2705	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.460032
	0.808230	-3.651802	28842.445362			
HLA B*2705	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.438273
	0.786460	-3.651814	27433.012285			
HLA A*0101	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.359044
	0.706847	-3.652197	22858.312447			
HLA A*2603	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.460478
	0.808230	-3.652248	28872.107145			

HLA A*0212	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.404204
	0.751912	-3.652291	25363.174867			
HLA A*6901	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.359843	
	0.707433	-3.652410	22900.395857			
HLA B*1801	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.438999
	0.786460	-3.652540	27478.909189			
HLA A*0212	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.332638	
	0.680076	-3.652562	21509.895614			
HLA A*0203	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.375784
	0.723137	-3.652648	23756.597814			
HLA B*1509	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.439256
	0.786460	-3.652796	27495.117673			
HLA B*5701	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.395694
	0.742712	-3.652981	24871.030568			
HLA B*3501	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.443536
	0.790540	-3.652996	27767.472114			
HLA B*5301	1:68-769	NYIAQTRDK	0.633507	0.291193	-4.577807	
	0.924700	-3.653107	37827.449728			
HLA B*0702	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.429872
	0.776623	-3.653249	26907.400291			
HLA B*1501	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.360703	
	0.707433	-3.653269	22945.784006			
HLA B*5801	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.351244
	0.697746	-3.653498	22451.423113			
HLA A*3301	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.610390
	0.956718	-3.653671	40774.601079			
HLA A*0212	1:31-399	ELKGTDTGQ	0.941370	-0.200769	-4.394500	
	0.740601	-3.653899	24802.773249			
HLA B*1801	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.341578
	0.687624	-3.653954	21957.257409			
HLA B*0702	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.444598
	0.790540	-3.654058	27835.454160			

HLA B*1503	1:49-579	AYNINISLP	0.584960	0.117828	-4.356934
	0.702788	-3.654147	22747.534229		
HLA A*1101	1:93-101	9 LNITSATYQ	0.940219	-0.153759	-4.440639
	0.786460	-3.654180	27582.868527		
HLA B*4002	1:25-339	PKTYCEELK	0.921220	0.066632	-4.642155
	0.987852	-3.654303	43868.699318		
HLA B*1801	1:148-156	9 WQADTDPLP	0.614046	0.092801	-4.361159
	0.706847	-3.654312	22969.878672		
HLA A*0202	1:90-989	PYELNITSA	1.095994	-0.320723	-4.429641
	0.775271	-3.654371	26893.138599		
HLA B*1517	1:27-359	TYCEELKGT	0.991738	-0.153839	-4.493428
	0.837899	-3.655528	31147.820152		
HLA A*0219	1:205-213	9 ELLPEAAGP	0.578973	-0.041207	-4.193328
	0.537766	-3.655562	15607.305776		
HLA A*2402	1:81-899	ATSSTPREA	0.999596	-0.112897	-4.542417
	0.886699	-3.655718	34867.175698		
HLA B*7301	1:107-115	9 RGTQAVVLK	0.840868	0.114110	-4.610756
	0.954978	-3.655778	40809.027031		
HLA A*1101	1:128-136	9 TYKAFDWDQ	0.746622	0.061608	-4.464047
	0.808230	-3.655817	29110.344729		
HLA A*0101	1:17-259	CSGVATAAP	0.698375	-0.030411	-4.323844
	0.667964	-3.655880	21078.717356		
HLA B*2705	1:27-359	TYCEELKGT	0.991738	-0.153839	-4.493905
	0.837899	-3.656005	31182.045711		
HLA A*3201	1:218-226	9 VPRSAIDSM	0.858689	0.068844	-4.583641
	0.927533	-3.656108	38339.004687		
HLA B*5801	1:26-349	KTYCEELKG	0.984658	-0.550231	-4.090655
	0.434427	-3.656228	12321.269148		
HLA B*1501	1:105-113	9 PPRGTQAVV	0.903475	-0.180338	-4.379492
	0.723137	-3.656355	23960.271382		
HLA A*3101	1:129-137	9 YKAFDWDQA	0.955276	-0.207214	-4.404479
	0.748062	-3.656417	25379.233749		

HLA A*0206	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.344877
	0.688457	-3.656420	22124.668393			
HLA A*0101	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.354209
	0.697746	-3.656463	22605.229710			
HLA A*0206	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.364542
	0.707999	-3.656543	23149.518358			
HLA B*0702	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.408597
	0.751912	-3.656685	25621.063505			
HLA A*8001	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.415178
	0.758478	-3.656700	26012.258452			
HLA A*0202	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.597049
	0.940065	-3.656985	39541.154454			
HLA A*0211	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.513015
	0.856017	-3.656998	32584.819144			
HLA A*2902	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.397703
	0.740601	-3.657102	24986.336873			
HLA B*1509	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.399918
	0.742712	-3.657206	25114.131002			
HLA A*0203	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.276612
	0.619394	-3.657219	18906.558527			
HLA B*5701	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.405301
	0.748062	-3.657239	25427.333866			
HLA A*0301	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.365247
	0.707999	-3.657248	23187.119761			
HLA A*2601	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.382863
	0.725355	-3.657508	24147.003424			
HLA B*4501	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.511056
	0.853458	-3.657598	32438.132570			
HLA A*2403	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.444161
	0.786460	-3.657702	27807.459118			
HLA B*4403	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.645796
	0.987852	-3.657945	44238.099364			

HLA A*6802	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.433344
	0.775271	-3.658073	27123.409350		
HLA A*0203	1:113-121 9	VLKVYQNAG	0.952015	-0.550401	-4.059750
	0.401614	-3.658136	11474.937236		
HLA B*0803	1:93-101 9	LNITSATYQ	0.940219	-0.153759	-4.444605
	0.786460	-3.658146	27835.905924		
HLA A*8001	1:161-169 9	IVQGELSKQ	0.821593	-0.054238	-4.425626
	0.767355	-3.658272	26645.643940		
HLA A*2403	1:149-157 9	QADTDPLPV	0.679726	0.062986	-4.401114
	0.742712	-3.658402	25183.381418		
HLA A*2902	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.354634
	0.696230	-3.658404	22627.375364		
HLA A*0101	1:177-185 9	APNAGLDPV	0.672482	0.029184	-4.360289
	0.701666	-3.658624	22923.946793		
HLA A*2301	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.523379
	0.864656	-3.658723	33371.743219		
HLA B*0702	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.434014
	0.775271	-3.658743	27165.260978		
HLA A*8001	1:129-137 9	YKAFDWDQA	0.955276	-0.207214	-4.406889
	0.748062	-3.658827	25520.494033		
HLA A*2501	1:149-157 9	QADTDPLPV	0.679726	0.062986	-4.401572
	0.742712	-3.658860	25209.962100		
HLA B*5701	1:208-216 9	PEAAGPTQV	0.855949	-0.104037	-4.410803
	0.751912	-3.658891	25751.546724		
HLA A*3301	1:14-22 9	LLCCSGVAT	1.136854	-0.272198	-4.523555
	0.864656	-3.658899	33385.286273		
HLA A*0301	1:32-40 9	LKGTDTGQA	1.058870	-0.351437	-4.366337
	0.707433	-3.658904	23245.396916		
HLA B*1501	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.355137
	0.696230	-3.658907	22653.586614		
HLA A*2301	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.434230
	0.775271	-3.658959	27178.784759		

HLA B*1517	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.435727
	0.776623	-3.659104	27272.607121			
HLA B*4002	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.586681
	0.927533	-3.659148	38608.334531			
HLA B*3901	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.497112
	0.837899	-3.659212	31413.161775			
HLA B*3901	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.439084
	0.779687	-3.659397	27484.261393			
HLA A*2403	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.361072
	0.701666	-3.659406	22965.281346			
HLA B*4601	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.400029
	0.740601	-3.659428	25120.517453			
HLA B*4801	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.426871
	0.767355	-3.659517	26722.153062			
HLA B*5301	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.599671
	0.940065	-3.659607	39780.603757			
HLA A*0219	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.418113
	0.758478	-3.659635	26188.617174			
HLA A*2501	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.348375
	0.688457	-3.659918	22303.609533			
HLA A*0301	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.348460
	0.688457	-3.660003	22307.953718			
HLA B*0801	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.252885
	0.592876	-3.660009	17901.319110			
HLA A*0301	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.367176
	0.706847	-3.660329	23290.334840			
HLA B*3901	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.224966
	0.564331	-3.660636	16786.729957			
HLA A*0219	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.447119
	0.786460	-3.660660	27997.503591			
HLA B*4801	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.436345
	0.775271	-3.661074	27311.438227			

HLA B*4002	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.647159
	0.985844	-3.661315	44377.124827			
HLA A*2301	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.470389
	0.809025	-3.661364	29538.511626			
HLA B*3501	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.401988
	0.740601	-3.661387	25234.113469			
HLA A*2601	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.357721
	0.696230	-3.661491	22788.797258			
HLA B*4002	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.628859
	0.967178	-3.661681	42546.028080			
HLA B*1801	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.363438
	0.701666	-3.661772	23090.732052			
HLA B*0803	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.517804
	0.856017	-3.661786	32946.066091			
HLA B*0803	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.384975
	0.723137	-3.661839	24264.728186			
HLA B*1517	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.470217
	0.808230	-3.661987	29526.848523			
HLA B*3901	1:77-85	9	FLSAATSST	0.627583	-0.297236	-3.992419
	0.330347	-3.662071	9826.950707			
HLA B*4601	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.363762
	0.701666	-3.662096	23107.977214			
HLA A*0219	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.369593
	0.707433	-3.662160	23420.348458			
HLA B*3501	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.358487
	0.696230	-3.662257	22829.023586			
HLA B*5101	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.414370
	0.751912	-3.662458	25963.894607			
HLA A*0301	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.360630
	0.697746	-3.662884	22941.936170			
HLA B*5101	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.500871
	0.837899	-3.662972	31686.248722			

HLA A*6802	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-3.759918
	0.096880	-3.663039	5753.318815			
HLA B*2705	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.350943
	0.687624	-3.663319	22435.881651			
HLA B*4501	1:25-33	9	PKTYCEELK	0.921220	0.066632	-4.651358
	0.987852	-3.663506	44808.219876			
HLA B*1501	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-3.892923
	0.229395	-3.663527	7814.888512			
HLA A*1101	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.422269
	0.758478	-3.663791	26440.447799			
HLA A*0206	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.499088
	0.835252	-3.663835	31556.408382			
HLA B*4403	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.618253
	0.954256	-3.663998	41519.627363			
HLA B*1501	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.243816
	0.579719	-3.664097	17531.376727			
HLA B*5301	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.573660
	0.909340	-3.664321	37467.974997			
HLA A*0301	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.360621
	0.696230	-3.664390	22941.439722			
HLA B*0801	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.367441
	0.702905	-3.664536	23304.576981			
HLA A*0211	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.283964
	0.619394	-3.664570	19229.324220			
HLA B*3801	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.518142
	0.853458	-3.664684	32971.741868			
HLA B*5801	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.352602
	0.687624	-3.664978	22521.736700			
HLA A*0101	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.372587
	0.707433	-3.665153	23582.323696			
HLA A*0301	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.368087
	0.702905	-3.665182	23339.273458			

HLA A*2403	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.372039
	0.706847	-3.665192	23552.616805			
HLA A*0219	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.328146
	0.662917	-3.665229	21288.550273			
HLA B*0803	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.469357
	0.804086	-3.665271	29468.442631			
HLA A*0301	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.366995
	0.701666	-3.665329	23280.635004			
HLA A*0250	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.590191
	0.924700	-3.665491	38921.645989			
HLA B*4001	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.266030
	0.600517	-3.665513	18451.445849			
HLA B*1509	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.474575
	0.809025	-3.665551	29824.652399			
HLA B*7301	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.606100
	0.940065	-3.666035	40373.793850			
HLA A*6802	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.334067
	0.667964	-3.666102	21580.762719			
HLA A*0212	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.024170
	0.357949	-3.666220	10572.305835			
HLA A*2601	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.389376
	0.723137	-3.666239	24511.845813			
HLA B*1503	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.504165
	0.837899	-3.666266	31927.492009			
HLA A*6801	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.369199
	0.702905	-3.666293	23399.072278			
HLA B*5701	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.406983
	0.740601	-3.666382	25526.017152			
HLA B*3501	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.334375
	0.667964	-3.666410	21596.062328			
HLA A*6801	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.380164
	0.713674	-3.666489	23997.372086			

HLA A*2403	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.369579
	0.702905	-3.666674	23419.588261			
HLA A*3101	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-3.908702
	0.241980	-3.666722	8104.046569			
HLA B*5801	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.333519
	0.666762	-3.666757	21553.577214			
HLA A*0201	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.374758
	0.707999	-3.666758	23700.500665			
HLA A*1101	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.504900
	0.837899	-3.667001	31981.600479			
HLA A*6801	1:214-222	9	TQVLVPRSA	1.194247	-0.237529	-4.623970
	0.956718	-3.667251	42069.731873			
HLA B*7301	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.514690
	0.847335	-3.667355	32710.749686			
HLA A*0201	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.247096
	0.579719	-3.667377	17664.278502			
HLA B*7301	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.592162
	0.924700	-3.667462	39098.708862			
HLA A*2402	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.476645
	0.809025	-3.667621	29967.139327			
HLA A*6801	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.607777
	0.940065	-3.667712	40530.045703			
HLA A*0212	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.338799
	0.671022	-3.667777	21817.181896			
HLA A*3101	1:34-42	9	GTDGTGACQ	0.815488	-0.167073	-4.316805
	0.648415	-3.668390	20739.826711			
HLA B*0803	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.445223
	0.776623	-3.668601	27875.539063			
HLA A*0206	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-3.829318
	0.160477	-3.668841	6750.213804			
HLA B*7301	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.596424
	0.927533	-3.668891	39484.294448			

HLA A*2501	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.445533
	0.776623	-3.668911	27895.452244			
HLA A*3101	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.376950
	0.707999	-3.668950	23820.429614			
HLA B*4002	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.624747
	0.954978	-3.669769	42145.132508			
HLA B*5801	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.373056
	0.702905	-3.670151	23607.853056			
HLA A*0219	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.445493
	0.775271	-3.670223	27892.886870			
HLA A*0201	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.410956
	0.740601	-3.670355	25760.603662			
HLA A*0301	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.358227
	0.687624	-3.670602	22815.318925			
HLA A*6802	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.290150
	0.619394	-3.670756	19505.191387			
HLA A*0212	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.378803
	0.707999	-3.670804	23922.322100			
HLA B*5801	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.338808
	0.667964	-3.670844	21817.654015			
HLA A*2601	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.372554
	0.701666	-3.670888	23580.537675			
HLA B*3901	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.396298
	0.725355	-3.670943	24905.633844			
HLA B*4501	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.657018
	0.985844	-3.671173	45396.001338			
HLA A*0301	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.339374
	0.667964	-3.671410	21846.118059			
HLA B*5101	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.480604
	0.809025	-3.671580	30241.558533			
HLA A*2301	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.518971
	0.847335	-3.671636	33034.767863			

HLA A*6801	1:63-719		QKSLENYIA	1.220826	-0.266570	-4.626058
	0.954256	-3.671803	42272.549004			
HLA A*2601	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.379825
	0.707999	-3.671826	23978.684836			
HLA B*1509	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.509766
	0.837899	-3.671867	32341.933300			
HLA B*1502	1:82-909		TSSTPREAP	0.792178	0.117162	-4.581277
	0.909340	-3.671938	38130.917219			
HLA A*0219	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.320224
	0.648272	-3.671951	20903.722144			
HLA A*3201	1:78-869		LSAATSSSTP	0.733359	0.025119	-4.430506
	0.758478	-3.672028	26946.731843			
HLA B*4402	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.373879
	0.701666	-3.672213	23652.595956			
HLA B*5801	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.343270
	0.671022	-3.672248	22042.950350			
HLA A*0201	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.396147
	0.723137	-3.673011	24897.012187			
HLA B*5701	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.396241
	0.723137	-3.673105	24902.400373			
HLA A*2602	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.254447
	0.581216	-3.673231	17965.836455			
HLA A*0101	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.376188
	0.702905	-3.673283	23778.713638			
HLA A*2603	1:25-339		PKTYCEELK	0.921220	0.066632	-4.661160
	0.987852	-3.673308	45831.043146			
HLA A*0206	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.120118
	0.446632	-3.673486	13186.149230			
HLA A*0201	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.381054
	0.707433	-3.673621	24046.625526			
HLA A*2403	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.425643
	0.751912	-3.673730	26646.653009			

HLA A*2402	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.583237
	0.909340	-3.673897	38303.346800			
HLA A*0206	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.482150
	0.808230	-3.673920	30349.401453			
HLA B*4002	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.628504
	0.954583	-3.673921	42511.286708			
HLA A*3301	1:63-71	9	QKSLENYIA	1.220826	-0.266570	-4.628478
	0.954256	-3.674223	42508.756989			
HLA B*1502	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.560982
	0.886699	-3.674284	36390.028915			
HLA B*4001	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.387978
	0.713674	-3.674304	24433.071874			
HLA A*0219	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.362928
	0.688457	-3.674471	23063.640686			
HLA A*6801	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-3.766676
	0.092119	-3.674557	5843.533789			
HLA B*4601	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.397806
	0.723137	-3.674669	24992.285207			
HLA B*3501	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.253395
	0.578083	-3.675312	17922.346631			
HLA A*0101	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.342760
	0.666762	-3.675998	22017.088301			
HLA B*4402	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.382903
	0.706847	-3.676056	24149.224280			
HLA B*4501	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.630692
	0.954583	-3.676109	42725.939450			
HLA A*1101	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.452744
	0.776623	-3.676121	28362.465205			
HLA B*1509	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.484424
	0.808230	-3.676194	30508.751245			
HLA B*1501	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.401636
	0.725355	-3.676281	25213.644712			

HLA A*0101	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.372854
	0.696230	-3.676624	23596.872046		
HLA B*4501	1:107-115 9	RGTQAVVLK	0.840868	0.114110	-4.631956
	0.954978	-3.676978	42850.475311		
HLA B*5801	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.357068
	0.680076	-3.676992	22754.549824		
HLA B*4501	1:211-219 9	AGPTQVLVP	0.915670	0.051508	-4.644279
	0.967178	-3.677101	44083.766406		
HLA B*4601	1:202-210 9	NPGELLPEA	1.188654	-0.463299	-4.402526
	0.725355	-3.677171	25265.394492		
HLA B*4001	1:170-178 9	TGQQVSIAP	0.814303	-0.116557	-4.375054
	0.697746	-3.677308	23716.661525		
HLA B*0803	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.452589
	0.775271	-3.677318	28352.340119		
HLA B*1501	1:49-57 9	AYNINISLP	0.584960	0.117828	-4.380229
	0.702788	-3.677442	24001.007409		
HLA A*2601	1:169-177 9	QTGQQVSIA	0.950594	-0.262137	-4.366295
	0.688457	-3.677838	23243.133436		
HLA B*3901	1:93-101 9	LNITSATYQ	0.940219	-0.153759	-4.464320
	0.786460	-3.677860	29128.618576		
HLA B*1801	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.453136
	0.775271	-3.677865	28388.100895		
HLA A*3301	1:218-226 9	VPRSAIDSM	0.858689	0.068844	-4.605552
	0.927533	-3.678019	40322.934575		
HLA B*1801	1:31-39 9	ELKGTDTGQ	0.941370	-0.200769	-4.418653
	0.740601	-3.678052	26221.223284		
HLA B*1509	1:148-156 9	WQADTDPLP	0.614046	0.092801	-4.384959
	0.706847	-3.678112	24263.809317		
HLA A*2601	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.358534
	0.680076	-3.678458	22831.493769		
HLA A*0202	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.516516
	0.837899	-3.678617	32848.538187		

HLA B*0803	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.469172
	0.790540	-3.678632	29455.851062			
HLA B*2705	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.446086
	0.767355	-3.678731	27930.938954			
HLA B*4801	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.380467
	0.701666	-3.678801	24014.125114			
HLA B*1509	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.380535
	0.701666	-3.678869	24017.892909			
HLA B*3501	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.386876
	0.707999	-3.678877	24371.157934			
HLA B*2705	1:78-869		LSAATSSSTP	0.733359	0.025119	-4.437451
	0.758478	-3.678973	27381.118086			
HLA A*0206	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.350057
	0.671022	-3.679035	22390.169669			
HLA B*4402	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.421775
	0.742712	-3.679063	26410.426478			
HLA A*0101	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.392797
	0.713674	-3.679123	24705.683092			
HLA A*0301	1:53-619		NISLPSYYP	0.515820	0.118220	-4.313196
	0.634040	-3.679156	20568.201316			
HLA B*2705	1:90-989		PYELNITSA	1.095994	-0.320723	-4.454722
	0.775271	-3.679451	28491.954523			
HLA B*5101	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.427626
	0.748062	-3.679564	26768.598386			
HLA A*0301	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.350610
	0.671022	-3.679587	22418.652930			
HLA A*2301	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.535636
	0.856017	-3.679619	34327.024222			
HLA A*0206	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.272541
	0.592876	-3.679665	18730.131477			
HLA B*4601	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.387344
	0.707433	-3.679910	24397.409269			

HLA B*4002	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.652796
	0.972498	-3.680298	44956.819126			
HLA A*0203	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.261519
	0.581216	-3.680303	18260.782839			
HLA B*4402	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.405672
	0.725355	-3.680317	25449.077489			
HLA B*4001	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.403461
	0.723137	-3.680325	25319.852927			
HLA A*3301	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.647888
	0.967178	-3.680710	44451.610619			
HLA A*0203	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.302675
	0.621958	-3.680717	20075.913721			
HLA B*4403	1:155-163	9	LPVVFPIVQ	1.161225	-0.206642	-4.635344
	0.954583	-3.680761	43186.061709			
HLA B*4402	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.281286
	0.600517	-3.680768	19111.096662			
HLA B*7301	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.567481
	0.886699	-3.680782	36938.654848			
HLA A*0203	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.273892
	0.592876	-3.681016	18788.485753			
HLA B*4402	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.448400
	0.767355	-3.681045	28080.172949			
HLA A*0202	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.489377
	0.808230	-3.681147	30858.665886			
HLA B*5801	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.300573
	0.619394	-3.681179	19978.944088			
HLA A*0250	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.260967
	0.579719	-3.681248	18237.582219			
HLA A*8001	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.421914
	0.740601	-3.681313	26418.857595			
HLA A*0216	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.348213
	0.666762	-3.681451	22295.285543			

HLA A*3101	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.370094
	0.688457	-3.681637	23447.351430			
HLA A*2402	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.449055
	0.767355	-3.681701	28122.588015			
HLA A*0212	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.330099
	0.648272	-3.681826	21384.470910			
HLA B*4001	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.407253
	0.725355	-3.681898	25541.902779			
HLA B*1503	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.349942
	0.667964	-3.681978	22384.235167			
HLA A*3002	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.468615
	0.786460	-3.682155	29418.108629			
HLA B*0802	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.434073
	0.751912	-3.682160	27168.935252			
HLA A*2501	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.362387
	0.680076	-3.682311	23034.961032			
HLA B*0801	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.304343
	0.621958	-3.682385	20153.174017			
HLA B*0803	1:153-161	9	DPLPVVFPF	0.780193	-0.026100	-4.436666
	0.754093	-3.682574	27331.687734			
HLA A*0216	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.457920
	0.775271	-3.682649	28702.510968			
HLA B*1801	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.486795
	0.804086	-3.682709	30675.740996			
HLA A*6901	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.350769
	0.667964	-3.682805	22426.901652			
HLA B*4402	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.390323
	0.707433	-3.682889	24565.344477			
HLA A*3301	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.592543
	0.909340	-3.683203	39132.990070			
HLA A*6901	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.276136
	0.592876	-3.683260	18885.806600			

HLA A*2403	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.390713	
	0.707433	-3.683279	24587.415087			
HLA A*0219	1:41-499	CQIQMSDPA	0.720301	-0.119784	-4.283901	
	0.600517	-3.683383	19226.515655			
HLA A*0203	1:49-579	AYNINISLP	0.584960	0.117828	-4.386301	
	0.702788	-3.683513	24338.877242			
HLA B*0802	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.406675
	0.723137	-3.683539	25507.933388			
HLA A*3101	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.408997
	0.725355	-3.683642	25644.637553			
HLA B*3901	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.491893
	0.808230	-3.683663	31037.979697			
HLA A*0216	1:78-869	LSAATSSTP	0.733359	0.025119	-4.442345	
	0.758478	-3.683867	27691.415460			
HLA B*4001	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.380286	
	0.696230	-3.684056	24004.123838			
HLA B*0803	1:27-359	TYCEELKGT	0.991738	-0.153839	-4.521960	
	0.837899	-3.684061	33262.876572			
HLA B*1509	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.332441
	0.648272	-3.684168	21500.123078			
HLA A*0212	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.371844
	0.687624	-3.684220	23542.043565			
HLA A*0201	1:88-969	EAPYELNIT	1.024679	-0.321774	-4.387160	
	0.702905	-3.684255	24387.116433			
HLA A*2601	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.382041
	0.697746	-3.684295	24101.325268			
HLA B*3501	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.436272
	0.751912	-3.684360	27306.858304			
HLA B*5801	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.347283
	0.662917	-3.684365	22247.573120			
HLA B*1502	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.492596
	0.808230	-3.684366	31088.226021			

HLA B*2705	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.386059
	0.701666	-3.684393	24325.318945			
HLA A*2603	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.651633
	0.967178	-3.684455	44836.590531			
HLA B*4501	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.656999
	0.972498	-3.684501	45394.036681			
HLA B*4601	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.391679
	0.706847	-3.684832	24642.145152			
HLA A*0211	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-3.971062
	0.286028	-3.685034	9355.391339			
HLA A*3002	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.522947
	0.837899	-3.685047	33338.540859			
HLA B*0802	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.464978
	0.779687	-3.685291	29172.775139			
HLA B*0801	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.383166
	0.697746	-3.685420	24163.860912			
HLA B*5701	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.399159
	0.713674	-3.685485	25070.285035			
HLA A*2602	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.580807
	0.895143	-3.685664	38089.682723			
HLA B*4801	1:31-39	9	ELKGTDTGQ	0.941370	-0.200769	-4.426270
	0.740601	-3.685669	26685.170322			
HLA A*0202	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.265662
	0.579719	-3.685943	18435.780719			
HLA B*4403	1:107-115	9	RGTQAVVLK	0.840868	0.114110	-4.641008
	0.954978	-3.686030	43753.037558			
HLA B*3501	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.461357
	0.775271	-3.686086	28930.583175			
HLA A*0250	1:82-90	9	TSSTPREAP	0.792178	0.117162	-4.595656
	0.909340	-3.686316	39414.507145			
HLA B*0802	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.463021
	0.776623	-3.686398	29041.605622			

HLA A*2601	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.393929
	0.707433	-3.686496	24770.188870			
HLA B*3901	1:135-143	9	DQAYRKPIV	1.136670	-0.428671	-4.394521
	0.707999	-3.686522	24803.980901			
HLA A*3201	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.374997
	0.688457	-3.686540	23713.582416			
HLA B*5301	1:154-162	9	PLPVVPIV	1.026322	-0.131179	-4.581754
	0.895143	-3.686611	38172.815881			
HLA A*0216	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.394047
	0.707433	-3.686613	24776.889975			
HLA B*3501	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.306054
	0.619394	-3.686660	20232.701766			
HLA A*0216	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.409918
	0.723137	-3.686781	25699.079240			
HLA A*0211	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.522047
	0.835252	-3.686795	33269.535332			
HLA A*0212	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.409979
	0.723137	-3.686842	25702.694253			
HLA B*4403	1:160-168	9	PIVQGELSK	0.947962	0.037882	-4.672773
	0.985844	-3.686929	47073.148433			
HLA A*3001	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.253381
	0.566374	-3.687007	17921.764893			
HLA B*7301	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.306733
	0.619394	-3.687339	20264.359486			
HLA B*4402	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.427978
	0.740601	-3.687377	26790.329474			
HLA A*0301	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.354171
	0.666762	-3.687409	22603.273126			
HLA A*8001	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.389143
	0.701666	-3.687478	24498.721297			
HLA A*2403	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.355494
	0.667964	-3.687530	22672.222391			

HLA A*3001	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.280541
	0.592876	-3.687665	19078.350463			
HLA A*2501	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.410961
	0.723137	-3.687824	25760.882387			
HLA B*4402	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.395872
	0.707999	-3.687873	24881.258434			
HLA A*6802	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.394789
	0.706847	-3.687942	24819.282913			
HLA B*5301	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.574642
	0.886699	-3.687943	37552.798461			
HLA B*4601	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.385819
	0.697746	-3.688073	24311.899725			
HLA B*0802	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.474547
	0.786460	-3.688088	29822.716285			
HLA B*5101	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.464905
	0.776623	-3.688282	29167.883083			
HLA B*0802	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.478934
	0.790540	-3.688394	30125.459885			
HLA A*2603	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.544414
	0.856017	-3.688397	35027.878324			
HLA A*2403	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.386242
	0.697746	-3.688496	24335.585699			
HLA B*4801	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.289051
	0.600517	-3.688533	19455.870058			
HLA B*4001	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.396540
	0.707999	-3.688540	24919.515593			
HLA B*1501	1:53-619		NISLPSYYP	0.515820	0.118220	-4.322810
	0.634040	-3.688771	21028.602274			
HLA B*4403	1:30-389		EELKGTDTG	0.811906	-0.748210	-3.752710
	0.063696	-3.689014	5658.615968			
HLA B*1501	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.355847
	0.666762	-3.689084	22690.627989			

HLA B*3901	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.480012
	0.790540	-3.689472	30200.358546			
HLA A*0101	1:135-143	9	DQAYRK PIT	1.136670	-0.428671	-4.397533
	0.707999	-3.689534	24976.606290			
HLA B*4002	1:64-72	9	KSLNYIAQ	0.805806	0.003219	-4.498742
	0.809025	-3.689718	31531.323007			
HLA A*6901	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.352649
	0.662917	-3.689732	22524.173634			
HLA A*0212	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.323821
	0.634040	-3.689781	21077.577051			
HLA A*0250	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.437898
	0.748062	-3.689836	27409.277030			
HLA B*4403	1:185-193	9	VNYQNFAVT	1.248328	-0.327759	-4.610411
	0.920569	-3.689842	40776.586402			
HLA A*2403	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.360877
	0.671022	-3.689855	22954.971772			
HLA A*2301	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.525148
	0.835252	-3.689896	33507.965176			
HLA B*4601	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.403628
	0.713674	-3.689954	25329.580204			
HLA B*4801	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.353142
	0.662917	-3.690225	22549.777364			
HLA A*0212	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.398243
	0.707433	-3.690810	25017.446085			
HLA B*1501	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.362002
	0.671022	-3.690980	23014.532975			
HLA B*4001	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.362098
	0.671022	-3.691076	23019.638290			
HLA B*1502	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.443177
	0.751912	-3.691265	27744.498124			
HLA A*1101	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.325320
	0.634040	-3.691280	21150.452196			

HLA B*4001	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.358243
	0.666762	-3.691481	22816.182940			
HLA A*2403	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.432141
	0.740601	-3.691540	27048.385167			
HLA A*2601	1:49-579		AYNINISLP	0.584960	0.117828	-4.394338
	0.702788	-3.691550	24793.516540			
HLA A*3101	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.389303
	0.697746	-3.691557	24507.735360			
HLA A*8001	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.414910
	0.723137	-3.691774	25996.220926			
HLA B*4601	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.380246
	0.688457	-3.691789	24001.916326			
HLA A*3101	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.398671
	0.706847	-3.691824	25042.090389			
HLA B*7301	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.292345
	0.600517	-3.691827	19603.997344			
HLA B*4402	1:49-579		AYNINISLP	0.584960	0.117828	-4.394644
	0.702788	-3.691856	24810.959596			
HLA A*0216	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.340232
	0.648272	-3.691959	21889.298230			
HLA B*3501	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.380469
	0.688457	-3.692012	24014.255028			
HLA A*3301	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.587174
	0.895143	-3.692032	38652.221486			
HLA A*3101	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.395250
	0.702905	-3.692344	24845.613706			
HLA B*7301	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.545535
	0.852998	-3.692537	35118.385091			
HLA A*6901	1:49-579		AYNINISLP	0.584960	0.117828	-4.395550
	0.702788	-3.692763	24862.824402			
HLA A*0250	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.530801
	0.837899	-3.692902	33946.962164			

HLA A*2602	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.557627
	0.864656	-3.692972	36109.987334			
HLA B*0801	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.406680
	0.713674	-3.693006	25508.209379			
HLA B*4402	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.355980
	0.662917	-3.693063	22697.626034			
HLA A*0201	1:49-579		AYNINISLP	0.584960	0.117828	-4.395971
	0.702788	-3.693183	24886.912480			
HLA A*8001	1:90-989		PYELNITSA	1.095994	-0.320723	-4.468612
	0.775271	-3.693341	29417.949480			
HLA B*4801	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.416602
	0.723137	-3.693465	26097.676794			
HLA A*2602	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.501747
	0.808230	-3.693517	31750.252598			
HLA A*6901	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.255035
	0.561410	-3.693625	17990.151189			
HLA A*0212	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.342102
	0.648415	-3.693687	21983.762746			
HLA A*6802	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.401887
	0.707999	-3.693888	25228.244061			
HLA B*2705	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.445825
	0.751912	-3.693913	27914.171524			
HLA A*2501	1:78-869		LSAATSSTP	0.733359	0.025119	-4.452399
	0.758478	-3.693921	28339.918816			
HLA B*4403	1:141-149	9	PITYDTLWQ	1.144380	-0.171882	-4.666646
	0.972498	-3.694148	46413.657129			
HLA B*1501	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.342614
	0.648272	-3.694342	22009.704719			
HLA B*0702	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.442474
	0.748062	-3.694413	27699.656098			
HLA B*4601	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.397324
	0.702905	-3.694419	24964.583445			

HLA B*1501	1:18-269		SGVATAAPK	0.424227	0.140104	-4.258930
	0.564331	-3.694600	18152.241436			
HLA A*3002	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.471392
	0.776623	-3.694769	29606.825129			
HLA A*6901	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.361659
	0.666762	-3.694897	22996.362266			
HLA A*6802	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.418103
	0.723137	-3.694967	26188.050470			
HLA B*0801	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.343336
	0.648272	-3.695063	22046.289600			
HLA B*5801	1:34-429		GDTGQACQ	0.815488	-0.167073	-4.343711
	0.648415	-3.695297	22065.380739			
HLA A*3001	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.282568
	0.587095	-3.695473	19167.630462			
HLA A*0206	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.398414
	0.702905	-3.695509	25027.327974			
HLA A*0201	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.393692
	0.697746	-3.695946	24756.658166			
HLA A*1101	1:34-429		GDTGQACQ	0.815488	-0.167073	-4.344715
	0.648415	-3.696300	22116.411187			
HLA A*2501	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.398057
	0.701666	-3.696392	25006.756382			
HLA B*0802	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.463784
	0.767355	-3.696430	29092.711893			
HLA A*0206	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.419567
	0.723137	-3.696430	26276.462559			
HLA A*0101	1:49-579		AYNINISLP	0.584960	0.117828	-4.399246
	0.702788	-3.696459	25075.303753			
HLA B*1503	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.487049
	0.790540	-3.696509	30693.669088			
HLA A*2603	1:63-719		QKSLINYIA	1.220826	-0.266570	-4.650806
	0.954256	-3.696550	44751.290308			

HLA B*1501	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.384346
	0.687624	-3.696721	24229.573454			
HLA B*1501	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.277992
	0.581216	-3.696775	18966.693720			
HLA A*1101	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.410451
	0.713674	-3.696777	25730.658248			
HLA B*2705	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.437390
	0.740601	-3.696789	27377.267008			
HLA A*0211	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.297365
	0.600517	-3.696848	19831.952997			
HLA A*6802	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.393123
	0.696230	-3.696893	24724.268125			
HLA B*1801	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.464355
	0.767355	-3.697001	29130.982411			
HLA A*0202	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-3.926478
	0.229395	-3.697083	8442.637287			
HLA A*0216	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.368358
	0.671022	-3.697335	23353.798207			
HLA A*1101	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.395332
	0.697746	-3.697586	24850.318572			
HLA B*5701	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.399263
	0.701666	-3.697597	25076.253353			
HLA A*6802	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.405038
	0.707433	-3.697604	25411.931919			
HLA A*0212	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.365613
	0.667964	-3.697649	23206.696621			
HLA B*4001	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.405143
	0.707433	-3.697710	25418.119080			
HLA A*2603	1:82-909		TSSTPREAP	0.792178	0.117162	-4.607115
	0.909340	-3.697775	40468.260663			
HLA B*1501	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.400886
	0.702905	-3.697981	25170.169672			

HLA B*4403	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.665314
	0.967178	-3.698136	46271.505676			
HLA B*5101	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.502245
	0.804086	-3.698160	31786.687742			
HLA B*3801	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.563139
	0.864656	-3.698484	36571.201428			
HLA B*5801	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.278556
	0.579719	-3.698837	18991.335564			
HLA A*2402	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.457408
	0.758478	-3.698930	28668.680447			
HLA A*0301	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.361847
	0.662917	-3.698930	23006.317041			
HLA A*3001	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.269064
	0.570132	-3.698931	18580.764893			
HLA A*2601	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.386789
	0.687624	-3.699165	24366.280147			
HLA A*6802	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.397019
	0.697746	-3.699273	24947.032385			
HLA B*1502	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.457779
	0.758478	-3.699301	28693.195836			
HLA A*2603	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.552778
	0.853458	-3.699320	35709.025549			
HLA A*0301	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.347863
	0.648415	-3.699448	22277.321146			
HLA B*4501	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.508537
	0.809025	-3.699513	32250.555271			
HLA A*2403	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.413350
	0.713674	-3.699676	25903.005698			
HLA B*5701	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.425055
	0.725355	-3.699700	26610.638509			
HLA B*1509	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.475158
	0.775271	-3.699887	29864.693573			

HLA A*2501	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.448289
	0.748062	-3.700228	28073.034058			
HLA A*0211	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.486844
	0.786460	-3.700385	30679.226194			
HLA A*0101	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.380462
	0.680076	-3.700386	24013.865288			
HLA B*4002	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.477035
	0.776623	-3.700413	29994.063153			
HLA B*0801	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.281936
	0.581216	-3.700720	19139.756860			
HLA A*2403	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.423881
	0.723137	-3.700744	26538.755471			
HLA A*3201	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.554244
	0.853458	-3.700786	35829.774732			
HLA A*2603	1:81-89	9	ATSSTPREA	0.999596	-0.112897	-4.587506
	0.886699	-3.700807	38681.716431			
HLA B*0702	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.407742
	0.706847	-3.700895	25570.660159			
HLA B*7301	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.554674
	0.853458	-3.701216	35865.264121			
HLA B*4601	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.388932
	0.687624	-3.701308	24486.796018			
HLA A*3101	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.335392
	0.634040	-3.701352	21646.710013			
HLA A*6801	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.566095
	0.864656	-3.701439	36820.940733			
HLA A*0250	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.554902
	0.853458	-3.701444	35884.089689			
HLA B*4001	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.404457
	0.702905	-3.701552	25377.998089			
HLA B*4002	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.641654
	0.940065	-3.701590	43818.178249			

HLA A*2403	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.350250
	0.648272	-3.701978	22400.104396			
HLA A*3001	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.283269
	0.581216	-3.702052	19198.556422			
HLA B*1502	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.281845
	0.579719	-3.702126	19135.719071			
HLA A*0216	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.321532
	0.619394	-3.702139	20966.806501			
HLA B*5101	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.492810
	0.790540	-3.702270	31103.534519			
HLA A*2301	1:49-579		AYNINISLP	0.584960	0.117828	-4.405176
	0.702788	-3.702389	25420.044281			
HLA A*3301	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.540295
	0.837899	-3.702396	34697.260382			
HLA B*4601	1:49-579		AYNINISLP	0.584960	0.117828	-4.405430
	0.702788	-3.702642	25434.900740			
HLA A*2603	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.597806
	0.895143	-3.702663	39610.094554			
HLA A*3101	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.322099
	0.619394	-3.702705	20994.160501			
HLA B*0801	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.398974
	0.696230	-3.702743	25059.572754			
HLA A*0206	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.410449
	0.707433	-3.703015	25730.519049			
HLA A*0211	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.426171
	0.723137	-3.703035	26679.107731			
HLA B*1503	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.444248
	0.740601	-3.703647	27813.025780			
HLA A*8001	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.411125
	0.707433	-3.703692	25770.639681			
HLA B*1517	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.444314
	0.740601	-3.703713	27817.239130			

HLA B*0801	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.374769
	0.671022	-3.703747	23701.141759			
HLA A*1101	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.457845
	0.754093	-3.703752	28697.542521			
HLA A*3101	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.370557
	0.666762	-3.703794	23472.353722			
HLA B*4801	1:202-210	9	NPCELLPEA	1.188654	-0.463299	-4.429350
	0.725355	-3.703995	26875.104025			
HLA B*4801	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.417770
	0.713674	-3.704095	26167.940424			
HLA A*0212	1:49-579		AYNINISLP	0.584960	0.117828	-4.406901
	0.702788	-3.704113	25521.184357			
HLA B*0802	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.444758
	0.740601	-3.704157	27845.695941			
HLA B*4601	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.412182
	0.707999	-3.704183	25833.453445			
HLA B*3501	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.009777
	0.305553	-3.704224	10227.671551			
HLA B*5701	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.411118
	0.706847	-3.704271	25770.221436			
HLA B*5801	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.352628
	0.648272	-3.704355	22523.076981			
HLA B*1801	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.375399
	0.671022	-3.704377	23735.529789			
HLA B*4402	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.400621
	0.696230	-3.704390	25154.787410			
HLA A*0201	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.392019
	0.687624	-3.704395	24661.482871			
HLA A*2902	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.392997
	0.688457	-3.704540	24717.046380			
HLA B*5301	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.551925
	0.847335	-3.704590	35638.969341			

HLA B*0802	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.463159	
	0.758478	-3.704681	29050.876701			
HLA B*3801	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.513800	
	0.809025	-3.704776	32643.749976			
HLA B*5801	1:53-61 9	NISLPSYYP	0.515820	0.118220	-4.338824	
	0.634040	-3.704785	21818.480248			
HLA B*3801	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.560935
	0.856017	-3.704918	36386.091808			
HLA B*4403	1:81-89 9	ATSSTPREA	0.999596	-0.112897	-4.591631	
	0.886699	-3.704933	39050.934626			
HLA A*0250	1:64-72 9	KSLENYIAQ	0.805806	0.003219	-4.513993	
	0.809025	-3.704968	32658.234312			
HLA A*0201	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.401220	
	0.696230	-3.704989	25189.512933			
HLA B*1517	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.406732
	0.701666	-3.705066	25511.245485			
HLA A*2601	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.372128
	0.666762	-3.705366	23557.459151			
HLA A*6802	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.011158
	0.305553	-3.705606	10260.257727			
HLA B*5401	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.482263
	0.776623	-3.705640	30357.283447			
HLA A*2501	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.431009
	0.725355	-3.705654	26977.946579			
HLA B*1509	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.473079
	0.767355	-3.705724	29722.050572			
HLA B*1503	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.275957
	0.570132	-3.705825	18878.043267			
HLA B*1801	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.464332	
	0.758478	-3.705854	29129.406500			
HLA B*4002	1:81-89 9	ATSSTPREA	0.999596	-0.112897	-4.592700	
	0.886699	-3.706002	39147.176886			

HLA B*5701	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.413583
	0.707433	-3.706149	25916.882520			
HLA A*8001	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.431521
	0.725355	-3.706166	27009.781946			
HLA A*2602	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.492702
	0.786460	-3.706242	31095.795215			
HLA B*5101	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.514554
	0.808230	-3.706324	32700.487527			
HLA A*0203	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.373155
	0.666762	-3.706393	23613.217732			
HLA B*0802	1:90-989		PYELNITSA	1.095994	-0.320723	-4.481685
	0.775271	-3.706414	30316.909852			
HLA B*5701	1:49-579		AYNINISLP	0.584960	0.117828	-4.409279
	0.702788	-3.706491	25661.291116			
HLA A*2402	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.571240
	0.864656	-3.706585	37259.777076			
HLA B*4403	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.631580
	0.924700	-3.706880	42813.400748			
HLA B*4501	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.355196
	0.648272	-3.706923	22656.650656			
HLA A*8001	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.420864
	0.713674	-3.707190	26355.048157			
HLA B*4601	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.326591
	0.619394	-3.707197	21212.444957			
HLA A*3101	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.375314
	0.667964	-3.707350	23730.907602			
HLA B*4403	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.634925
	0.927533	-3.707392	43144.495264			
HLA A*3002	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.498044
	0.790540	-3.707504	31480.701141			
HLA B*4501	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.647883
	0.940065	-3.707818	44451.129665			

HLA B*0702	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.378881
	0.671022	-3.707859	23926.593246			
HLA B*1801	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.450662
	0.742712	-3.707950	28226.844607			
HLA A*0219	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.287843
	0.579719	-3.708124	19401.844599			
HLA A*6801	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.512456
	0.804086	-3.708370	32542.891440			
HLA B*4403	1:116-124	9	VYQNAGGTH	1.000005	-0.059940	-4.648541
	0.940065	-3.708476	44518.513879			
HLA A*6802	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.269933
	0.561410	-3.708523	18617.994496			
HLA B*4002	1:68-769		NYIAQTRDK	0.633507	0.291193	-4.633260
	0.924700	-3.708560	42979.326710			
HLA B*4001	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.396462
	0.687624	-3.708838	24915.067201			
HLA B*4001	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.397369
	0.688457	-3.708912	24967.149633			
HLA A*0211	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.416529
	0.707433	-3.709096	26093.300409			
HLA B*3801	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.489036
	0.779687	-3.709349	30834.468793			
HLA A*2301	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.489424
	0.779687	-3.709737	30862.004906			
HLA A*6801	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.518948
	0.809025	-3.709923	33032.980767			
HLA B*1509	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.514049
	0.804086	-3.709963	32662.474846			
HLA B*5701	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.406356
	0.696230	-3.710125	25489.172958			
HLA B*5401	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.519204
	0.809025	-3.710179	33052.465331			

HLA B*4402	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.433349
	0.723137	-3.710212	27123.702821			
HLA B*2705	1:49-579	AYNINISLP	0.584960	0.117828	-4.413087	
	0.702788	-3.710299	25887.315624			
HLA A*3301	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.478234
	0.767355	-3.710879	30076.932344			
HLA B*4801	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.418441	
	0.707433	-3.711008	26208.459540			
HLA A*1101	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.463046
	0.751912	-3.711134	29043.333904			
HLA B*4001	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.330752
	0.619394	-3.711358	21416.656264			
HLA B*5701	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.399906
	0.688457	-3.711449	25113.451688			
HLA A*0216	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.419555
	0.707999	-3.711556	26275.751805			
HLA B*4001	1:17-259	CSGVATAAP	0.698375	-0.030411	-4.379579	
	0.667964	-3.711614	23965.067891			
HLA A*6801	1:211-219	9	AGPTQVLVP	0.915670	0.051508	-4.678795
	0.967178	-3.711617	47730.389304			
HLA A*6901	1:18-269	SGVATAAPK	0.424227	0.140104	-4.276037	
	0.564331	-3.711706	18881.515942			
HLA A*6802	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.360444
	0.648272	-3.712172	22932.133312			
HLA B*5301	1:14-229	LLCCSGVAT	1.136854	-0.272198	-4.577203	
	0.864656	-3.712548	37774.893199			
HLA A*0216	1:41-499	CQIQMSDPA	0.720301	-0.119784	-4.313328	
	0.600517	-3.712811	20574.433474			
HLA B*2705	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.376050
	0.662917	-3.713132	23771.125077			
HLA B*1801	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.461223
	0.748062	-3.713162	28921.663409			

HLA B*1501	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.361798
	0.648415	-3.713383	23003.703496			
HLA B*3801	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.521645
	0.808230	-3.713415	33238.772214			
HLA A*3002	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.456355
	0.742712	-3.713643	28599.282295			
HLA A*3101	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.427332
	0.713674	-3.713658	26750.502611			
HLA B*0803	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.481206
	0.767355	-3.713851	30283.470039			
HLA A*0203	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.362698
	0.648272	-3.714425	23051.416296			
HLA B*0702	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.421994
	0.707433	-3.714560	26423.717427			
HLA B*3901	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.482023
	0.767355	-3.714669	30340.536655			
HLA A*0202	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.377605
	0.662917	-3.714688	23856.410342			
HLA B*5101	1:89-979		APYELNITS	1.361001	-1.037258	-4.038680
	0.323743	-3.714937	10931.509518			
HLA A*0301	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.363442
	0.648272	-3.715170	23090.981890			
HLA A*0201	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.381949
	0.666762	-3.715187	24096.240770			
HLA B*4403	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.568649
	0.853458	-3.715191	37038.105997			
HLA B*4402	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.428991
	0.713674	-3.715316	26852.868355			
HLA A*3001	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.021031
	0.305553	-3.715478	10496.168788			
HLA A*2603	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.568503
	0.852998	-3.715505	37025.685014			

HLA A*2902	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.102934
	0.387379	-3.715555	12674.588060			
HLA A*6802	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.395659
	0.680076	-3.715582	24869.012408			
HLA A*2902	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.440994
	0.725355	-3.715639	27605.409992			
HLA A*2603	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.495415
	0.779687	-3.715728	31290.703164			
HLA A*3201	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.483224
	0.767355	-3.715869	30424.527695			
HLA A*2902	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.423545
	0.707433	-3.716111	26518.232653			
HLA B*5701	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.403912
	0.687624	-3.716288	25346.166289			
HLA A*0219	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.424421
	0.707999	-3.716422	26571.797520			
HLA B*1503	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.294506
	0.578083	-3.716423	19701.811574			
HLA B*4601	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.379363
	0.662917	-3.716445	23953.143210			
HLA B*4501	1:68-76	9	NYIAQTRDK	0.633507	0.291193	-4.641253
	0.924700	-3.716553	43777.661189			
HLA A*6901	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.317118
	0.600517	-3.716600	20754.754702			
HLA B*5401	1:47-55	9	DPAYNINIS	0.849651	-1.215266	-3.351047
	0.365615	-3.716662	2244.124586			
HLA A*2501	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.424834
	0.707999	-3.716835	26597.109653			
HLA B*4402	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.405301
	0.688457	-3.716844	25427.333866			
HLA A*8001	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.396958
	0.680076	-3.716881	24943.523654			

HLA B*5701	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.419842
	0.702905	-3.716936	26293.099696			
HLA A*0211	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.525331
	0.808230	-3.717101	33522.107561			
HLA B*3801	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.459849
	0.742712	-3.717136	28830.277243			
HLA A*8001	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.380410
	0.662917	-3.717493	24011.007386			
HLA A*3002	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.424367
	0.706847	-3.717520	26568.491464			
HLA A*2902	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.440703
	0.723137	-3.717566	27586.897768			
HLA B*4501	1:218-226	9	VPRSAIDSM	0.858689	0.068844	-4.645122
	0.927533	-3.717589	44169.466896			
HLA B*4001	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.397874
	0.680076	-3.717798	24996.206474			
HLA B*4601	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.388930
	0.671022	-3.717907	24486.663547			
HLA B*1503	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.493329
	0.775271	-3.718058	31140.743693			
HLA A*0101	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.381080
	0.662917	-3.718163	24048.056554			
HLA A*2601	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.389205
	0.671022	-3.718182	24502.167459			
HLA B*4601	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.414565
	0.696230	-3.718335	25975.555553			
HLA B*1517	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.441495
	0.723137	-3.718358	27637.238217			
HLA B*0803	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.466517
	0.748062	-3.718455	29276.331574			
HLA A*2301	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.523278
	0.804086	-3.719192	33363.981012			

HLA B*0801	1:49-579	AYNINISLP	0.584960	0.117828	-4.422210	
	0.702788	-3.719422	26436.872044			
HLA A*0202	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.339043
	0.619394	-3.719649	21829.460317			
HLA A*0201	1:17-259	CSGVATAAP	0.698375	-0.030411	-4.388006	
	0.667964	-3.720042	24434.658088			
HLA B*4402	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.417805
	0.697746	-3.720059	26170.063995			
HLA B*0802	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.421900
	0.701666	-3.720234	26418.000070			
HLA B*5701	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.418019
	0.697746	-3.720273	26182.950687			
HLA A*3002	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.301775
	0.581216	-3.720559	20034.359742			
HLA B*4501	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.468760
	0.748062	-3.720699	29427.977503			
HLA B*0803	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.122491
	0.401614	-3.720877	13258.395388			
HLA B*5101	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.488280
	0.767355	-3.720925	30780.802389			
HLA A*0212	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.418674
	0.697746	-3.720928	26222.500001			
HLA B*5701	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.428946
	0.707999	-3.720947	26850.108347			
HLA B*1509	1:31-399	ELKGTDTGQ	0.941370	-0.200769	-4.461564	
	0.740601	-3.720963	28944.359444			
HLA A*2402	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.401065	
	0.680076	-3.720988	25180.520555			
HLA B*0801	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.408668
	0.687624	-3.721043	25625.222056			
HLA B*4501	1:82-909	TSSTPREAP	0.792178	0.117162	-4.630389	
	0.909340	-3.721049	42696.132458			

HLA B*4001	1:34-42 9	GTDTGQACQ	0.815488	-0.167073	-4.369499
	0.648415	-3.721085	23415.280946		
HLA A*0206	1:119-127 9	NAGGTHPTT	1.008013	-0.359741	-4.369626
	0.648272	-3.721354	23422.122346		
HLA A*0250	1:183-191 9	DPVNYQNFA	1.302206	-0.446189	-4.577462
	0.856017	-3.721444	37797.379267		
HLA A*6901	1:34-42 9	GTDTGQACQ	0.815488	-0.167073	-4.369932
	0.648415	-3.721517	23438.600581		
HLA A*6801	1:218-226 9	VPRSAIDSM	0.858689	0.068844	-4.649053
	0.927533	-3.721520	44571.048020		
HLA A*1101	1:129-137 9	YKAFDWDQA	0.955276	-0.207214	-4.469733
	0.748062	-3.721671	29493.961035		
HLA A*2402	1:183-191 9	DPVNYQNFA	1.302206	-0.446189	-4.577781
	0.856017	-3.721764	37825.198730		
HLA A*3201	1:128-136 9	TYKAFDWDQ	0.746622	0.061608	-4.530136
	0.808230	-3.721906	33895.029176		
HLA A*0202	1:49-57 9	AYNINISLP	0.584960	0.117828	-4.424823
	0.702788	-3.722035	26596.390225		
HLA A*0201	1:206-214 9	LLPEAAGPT	0.415766	-0.375252	-3.762710
	0.040514	-3.722195	5790.414175		
HLA A*0216	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.418545
	0.696230	-3.722315	26214.698816		
HLA B*1502	1:95-103 9	ITSATYQSA	0.951011	-0.171324	-4.502086
	0.779687	-3.722398	31774.996445		
HLA B*5401	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.560315
	0.837899	-3.722416	36334.161893		
HLA B*5701	1:119-127 9	NAGGTHPTT	1.008013	-0.359741	-4.370954
	0.648272	-3.722681	23493.823634		
HLA B*5701	1:16-24 9	CCSGVATAA	0.892838	-0.221816	-4.393887
	0.671022	-3.722865	24767.776916		
HLA A*6801	1:184-192 9	PVNYQNFAV	0.967153	-0.114155	-4.575932
	0.852998	-3.722934	37664.497159		

HLA A*0250	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.531205
	0.808230	-3.722975	33978.564545			
HLA B*7301	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.532006
	0.809025	-3.722982	34041.305109			
HLA B*4801	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.410634
	0.687624	-3.723010	25741.518140			
HLA A*0101	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.410902
	0.687624	-3.723278	25757.398535			
HLA A*0201	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.371574
	0.648272	-3.723301	23527.401737			
HLA A*0250	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.558616
	0.835252	-3.723364	36192.323844			
HLA A*1101	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.425100
	0.701666	-3.723434	26613.373901			
HLA A*1101	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.498831
	0.775271	-3.723561	31537.805750			
HLA B*1502	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.430619
	0.706847	-3.723772	26953.730136			
HLA A*3002	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.420185
	0.696230	-3.723954	26313.875342			
HLA B*0802	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.472209
	0.748062	-3.724148	29662.616666			
HLA B*5101	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.499569
	0.775271	-3.724298	31591.424713			
HLA B*1502	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.472433
	0.748062	-3.724371	29677.865374			
HLA B*4601	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.392522
	0.667964	-3.724558	24690.050404			
HLA B*3901	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.499868
	0.775271	-3.724597	31613.137247			
HLA A*0211	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.500114
	0.775271	-3.724843	31631.099822			

HLA B*4002	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.426561
	0.701666	-3.724896	26703.077441			
HLA A*3301	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.504719
	0.779687	-3.725032	31968.280951			
HLA A*6802	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.412819
	0.687624	-3.725195	25871.355130			
HLA A*6801	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.344611
	0.619394	-3.725218	22111.147330			
HLA B*0803	1:78-86 9		LSAATSSTP	0.733359	0.025119	-4.483870
	0.758478	-3.725392	30469.824545			
HLA B*0801	1:77-85 9		FLSAATSST	0.627583	-0.297236	-4.055742
	0.330347	-3.725395	11369.519146			
HLA B*4601	1:55-63 9		SLPSYYPDQ	0.698032	-0.017956	-4.405491
	0.680076	-3.725415	25438.478592			
HLA A*0206	1:90-98 9		PYELNITSA	1.095994	-0.320723	-4.500720
	0.775271	-3.725450	31675.279799			
HLA B*1517	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.477430
	0.751912	-3.725518	30021.335990			
HLA B*3901	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.011605
	0.286028	-3.725577	10270.809452			
HLA B*7301	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.581606
	0.856017	-3.725589	38159.807923			
HLA A*0211	1:78-86 9		LSAATSSTP	0.733359	0.025119	-4.484070
	0.758478	-3.725592	30483.839028			
HLA B*0803	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.477651
	0.751912	-3.725739	30036.606610			
HLA B*4801	1:49-57 9		AYNINISLP	0.584960	0.117828	-4.428558
	0.702788	-3.725771	26826.151782			
HLA B*1501	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.303939
	0.578083	-3.725857	20134.430192			
HLA B*4801	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.423906
	0.697746	-3.726160	26540.334807			

HLA A*2603	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.493813
	0.767355	-3.726458	31175.467440			
HLA B*1801	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.424332
	0.697746	-3.726586	26566.335563			
HLA B*2705	1:18-269		SGVATAAPK	0.424227	0.140104	-4.290928
	0.564331	-3.726597	19540.150103			
HLA B*1509	1:49-579		AYNINISLP	0.584960	0.117828	-4.429470
	0.702788	-3.726682	26882.520006			
HLA B*1503	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.414363
	0.687624	-3.726738	25963.473225			
HLA A*2601	1:53-619		NISLPSYYP	0.515820	0.118220	-4.360905
	0.634040	-3.726865	22956.462026			
HLA B*3501	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.414586
	0.687624	-3.726962	25976.820308			
HLA A*0301	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.308455
	0.581216	-3.727239	20344.876302			
HLA A*6802	1:49-579		AYNINISLP	0.584960	0.117828	-4.430053
	0.702788	-3.727265	26918.611212			
HLA B*4002	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.592012
	0.864656	-3.727356	39085.173946			
HLA A*0203	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.151089
	0.423714	-3.727375	14160.836149			
HLA B*1517	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.375655
	0.648272	-3.727383	23749.530234			
HLA B*4002	1:82-909		TSSTPREAP	0.792178	0.117162	-4.636749
	0.909340	-3.727409	43325.999765			
HLA A*8001	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.435640
	0.707999	-3.727641	27267.148621			
HLA B*2705	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.450796
	0.723137	-3.727660	28235.550082			
HLA A*2601	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.395734
	0.667964	-3.727769	24873.318015			

HLA B*5801	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.349921
	0.621958	-3.727963	22383.145328			
HLA A*0203	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.294403
	0.566374	-3.728029	19697.122409			
HLA A*0206	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.265889
	0.537766	-3.728123	18445.457604			
HLA A*0203	1:53-619		NISLPSYYP	0.515820	0.118220	-4.362216
	0.634040	-3.728176	23025.865817			
HLA A*3301	1:81-899		ATSSTPREA	0.999596	-0.112897	-4.614983
	0.886699	-3.728284	41208.135410			
HLA A*8001	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.435252
	0.706847	-3.728405	27242.819959			
HLA B*4601	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.395222
	0.666762	-3.728459	24844.000814			
HLA A*6802	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.321415
	0.592876	-3.728539	20961.135863			
HLA A*8001	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.395320
	0.666762	-3.728558	24849.646393			
HLA A*3002	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.469343
	0.740601	-3.728742	29467.486121			
HLA B*0803	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.471545
	0.742712	-3.728832	29617.237987			
HLA B*5401	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.431848
	0.702905	-3.728942	27030.100255			
HLA A*0201	1:34-429		GTDGTGACQ	0.815488	-0.167073	-4.377415
	0.648415	-3.729000	23845.958729			
HLA B*1501	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.351234
	0.621958	-3.729277	22450.937279			
HLA A*0216	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.310527
	0.581216	-3.729311	20442.184301			
HLA A*0250	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.377814
	0.648272	-3.729542	23867.899495			

HLA B*5401	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.516213
	0.786460	-3.729753	32825.621988			
HLA A*6802	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.309484
	0.579719	-3.729765	20393.141287			
HLA B*2705	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.443480
	0.713674	-3.729806	27763.867093			
HLA A*0101	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.316991
	0.587095	-3.729895	20748.692418			
HLA A*3001	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.294835
	0.564800	-3.730035	19716.739073			
HLA B*3801	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.568075
	0.837899	-3.730176	36989.247472			
HLA B*5401	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.437240
	0.706847	-3.730393	27367.789738			
HLA A*3002	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.432085
	0.701666	-3.730419	27044.873505			
HLA B*4801	1:91-999		YELNITSAT	0.787532	-0.429583	-4.088578
	0.357949	-3.730629	12262.485299			
HLA A*2902	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.378904
	0.648272	-3.730632	23927.887683			
HLA B*2705	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.438936
	0.707999	-3.730937	27474.895720			
HLA A*2902	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.432888
	0.701666	-3.731223	27094.957763			
HLA B*7301	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.438708
	0.707433	-3.731275	27460.481797			
HLA B*3501	1:49-579		AYNINISLP	0.584960	0.117828	-4.434106
	0.702788	-3.731318	27170.993063			
HLA B*1502	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.587377
	0.856017	-3.731359	38670.208634			
HLA B*4402	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.411644
	0.680076	-3.731568	25801.469110			

HLA B*5401	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.522162
	0.790540	-3.731622	33278.355741			
HLA A*2603	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.518149
	0.786460	-3.731689	32972.276993			
HLA A*0250	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.522319
	0.790540	-3.731779	33290.420086			
HLA A*0101	1:53-619		NISLPSYYP	0.515820	0.118220	-4.365829
	0.634040	-3.731790	23218.249696			
HLA A*2601	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.394996
	0.662917	-3.732079	24831.101448			
HLA B*3801	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.486191
	0.754093	-3.732098	30633.120875			
HLA A*2402	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.398880
	0.666762	-3.732117	25054.150561			
HLA A*8001	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.428366
	0.696230	-3.732135	26814.254048			
HLA B*4402	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.419837
	0.687624	-3.732213	26292.815212			
HLA A*3002	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.585732
	0.853458	-3.732274	38524.044485			
HLA A*2601	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.312022
	0.579719	-3.732303	20512.640649			
HLA A*0212	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.435252
	0.702905	-3.732347	27242.819959			
HLA A*2902	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.403588
	0.671022	-3.732566	25327.250798			
HLA A*0201	1:53-619		NISLPSYYP	0.515820	0.118220	-4.366680
	0.634040	-3.732640	23263.764402			
HLA B*3801	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.536809
	0.804086	-3.732723	34419.816406			
HLA A*6801	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.420605
	0.687624	-3.732981	26339.369255			

HLA B*4002	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.481213
	0.748062	-3.733151	30283.961534			
HLA A*3001	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.294602
	0.561410	-3.733192	19706.182028			
HLA B*4501	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.185936
	0.452621	-3.733315	15343.924726			
HLA B*1517	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.508617
	0.775271	-3.733346	32256.487862			
HLA B*5401	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.400181
	0.666762	-3.733419	25129.352455			
HLA A*6802	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.311606
	0.578083	-3.733523	20493.008164			
HLA B*4801	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.429757
	0.696230	-3.733526	26900.268500			
HLA B*7301	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.598189
	0.864656	-3.733533	39645.038612			
HLA A*6801	1:34-42	9	GTDTGQACQ	0.815488	-0.167073	-4.381985
	0.648415	-3.733570	24098.196219			
HLA A*2402	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.569020
	0.835252	-3.733768	37069.778315			
HLA B*0702	1:34-42	9	GTDTGQACQ	0.815488	-0.167073	-4.382205
	0.648415	-3.733791	24110.453981			
HLA A*2601	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.353758
	0.619394	-3.734364	22581.761877			
HLA A*6802	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.315647
	0.581216	-3.734430	20684.585729			
HLA A*8001	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.423072
	0.688457	-3.734615	26489.412725			
HLA A*0101	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.354052
	0.619394	-3.734658	22597.037645			
HLA B*0702	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.383343
	0.648272	-3.735070	24173.667187			

HLA A*0203	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.432980
	0.697746	-3.735234	27100.675015			
HLA B*3501	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.442820
	0.707433	-3.735386	27721.693114			
HLA A*0219	1:53-619		NISLPSYYP	0.515820	0.118220	-4.369553
	0.634040	-3.735514	23418.194631			
HLA A*0301	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.357672
	0.621958	-3.735714	22786.208422			
HLA A*3101	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.406849
	0.671022	-3.735827	25518.147069			
HLA A*3101	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.443313
	0.707433	-3.735880	27753.204980			
HLA B*1503	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-3.970075
	0.234162	-3.735913	9334.158586			
HLA B*0801	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.402824
	0.666762	-3.736062	25282.759196			
HLA A*0219	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.402839
	0.666762	-3.736076	25283.579871			
HLA B*0801	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.442965
	0.706847	-3.736119	27730.992893			
HLA B*4501	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.592165
	0.856017	-3.736148	39098.920383			
HLA A*3101	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.432592
	0.696230	-3.736362	27076.494886			
HLA B*3501	1:18-269		SGVATAAPK	0.424227	0.140104	-4.300739
	0.564331	-3.736409	19986.619517			
HLA B*0801	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.337041
	0.600517	-3.736524	21729.074938			
HLA B*1503	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.407984
	0.671022	-3.736962	25584.912577			
HLA B*1502	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.460157
	0.723137	-3.737020	28850.716372			

HLA A*2902	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.356497
	0.619394	-3.737104	22724.656277			
HLA B*5401	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.489083
	0.751912	-3.737171	30837.805195			
HLA B*1801	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.385474
	0.648272	-3.737201	24292.573283			
HLA A*2403	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.445270
	0.707999	-3.737271	27878.555298			
HLA B*4001	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.400318
	0.662917	-3.737400	25137.238619			
HLA A*3101	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.158612
	0.421102	-3.737510	14408.273664			
HLA A*2602	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.541714
	0.804086	-3.737629	34810.821649			
HLA B*0702	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.425262
	0.687624	-3.737638	26623.310058			
HLA A*2601	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.386113
	0.648415	-3.737698	24328.345871			
HLA A*2603	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.357381
	0.619394	-3.737987	22770.927961			
HLA B*5701	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.406074
	0.667964	-3.738110	25472.631096			
HLA A*0101	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.386409
	0.648272	-3.738136	24344.934844			
HLA B*4001	1:49-579		AYNINISLP	0.584960	0.117828	-4.441088
	0.702788	-3.738301	27611.384327			
HLA B*2705	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.445754
	0.707433	-3.738321	27909.641515			
HLA B*1502	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.505701
	0.767355	-3.738347	32040.653699			
HLA A*2301	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.528928
	0.790540	-3.738388	33800.908764			

HLA A*2501	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.452246
	0.713674	-3.738572	28329.955040			
HLA A*1101	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.418789
	0.680076	-3.738713	26229.452102			
HLA B*4801	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.441960
	0.702905	-3.739054	27666.857928			
HLA B*0801	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.407230
	0.667964	-3.739265	25540.521028			
HLA B*1503	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.442199
	0.702905	-3.739294	27682.128954			
HLA B*5701	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.406104
	0.666762	-3.739342	25474.422612			
HLA A*3101	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.402270
	0.662917	-3.739353	25250.500439			
HLA B*1517	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.487415
	0.748062	-3.739354	30719.583720			
HLA B*7301	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.525820
	0.786460	-3.739360	33559.849776			
HLA A*0203	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.427099
	0.687624	-3.739475	26736.179439			
HLA A*0101	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.332396
	0.592876	-3.739520	21497.913239			
HLA A*2902	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.447542
	0.707999	-3.739543	28024.780279			
HLA A*2501	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.446405
	0.706847	-3.739558	27951.496562			
HLA B*2705	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.464952
	0.725355	-3.739597	29171.039154			
HLA B*1502	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.526085
	0.786460	-3.739626	33580.371771			
HLA B*3801	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.507083
	0.767355	-3.739728	32142.737773			

HLA A*1101	1:49-579	AYNINISLP	0.584960	0.117828	-4.442681	
	0.702788	-3.739893	27712.846220			
HLA B*5801	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.353572	
	0.613638	-3.739934	22572.112917			
HLA A*0216	1:49-579	AYNINISLP	0.584960	0.117828	-4.442770	
	0.702788	-3.739983	27718.543895			
HLA B*4002	1:154-162	9	PLPVVFPV	1.026322	-0.131179	-4.635217
	0.895143	-3.740074	43173.447434			
HLA A*2301	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.526534
	0.786460	-3.740075	33615.087927			
HLA B*5301	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.526598
	0.786460	-3.740138	33619.998341			
HLA A*3301	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.436471	
	0.696230	-3.740241	27319.417992			
HLA B*3801	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.526826
	0.786460	-3.740366	33637.645375			
HLA A*2602	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.593880
	0.853458	-3.740422	39253.635886			
HLA A*0219	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.428098
	0.687624	-3.740474	26797.722062			
HLA B*0801	1:34-429	GTDTGQACQ	0.815488	-0.167073	-4.388894	
	0.648415	-3.740480	24484.676576			
HLA B*1503	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.026641
	0.286028	-3.740614	10632.646521			
HLA A*2601	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.389195
	0.648272	-3.740923	24501.637249			
HLA A*0250	1:90-989	PYELNITSA	1.095994	-0.320723	-4.516227	
	0.775271	-3.740956	32826.687503			
HLA B*4402	1:17-259	CSGVATAAP	0.698375	-0.030411	-4.409048	
	0.667964	-3.741084	25647.689897			
HLA A*0202	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.279347
	0.537766	-3.741581	19025.990869			

HLA B*4402	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.444643
	0.702905	-3.741737	27838.315455			
HLA B*1502	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.495862
	0.754093	-3.741769	31322.882755			
HLA B*0702	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.430276
	0.688457	-3.741819	26932.449304			
HLA B*1801	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.342527
	0.600517	-3.742010	22005.299567			
HLA B*4403	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.528578
	0.786460	-3.742119	33773.673726			
HLA A*0203	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.410167
	0.667964	-3.742202	25713.820559			
HLA A*0203	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.100312
	0.357949	-3.742362	12598.296576			
HLA A*0250	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.519112
	0.776623	-3.742490	33045.492470			
HLA A*0219	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.440271
	0.697746	-3.742525	27559.450892			
HLA B*5401	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.517844
	0.775271	-3.742573	32949.096218			
HLA B*3801	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.519211
	0.776623	-3.742588	33053.001766			
HLA B*5701	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.362098
	0.619394	-3.742705	23019.638290			
HLA B*5701	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.405646
	0.662917	-3.742729	25447.563090			
HLA A*2902	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.324098
	0.581216	-3.742882	21091.036575			
HLA A*2602	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.590494
	0.847335	-3.743159	38948.817941			
HLA A*3002	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.411630
	0.667964	-3.743666	25800.631625			

HLA B*0702	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.441429
	0.697746	-3.743683	27633.052131			
HLA A*0101	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.344289
	0.600517	-3.743772	22094.765619			
HLA A*1101	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.432736
	0.688457	-3.744279	27085.431692			
HLA B*5801	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.344849
	0.600517	-3.744331	22123.232136			
HLA B*4801	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.415688
	0.671022	-3.744666	26042.813369			
HLA A*0212	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.411651
	0.666762	-3.744889	25801.887863			
HLA B*4002	1:29-379		CEELKGTDT	0.714161	-0.468986	-3.990069
	0.245175	-3.744895	9773.931536			
HLA B*0802	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.470309
	0.725355	-3.744954	29533.078923			
HLA A*2403	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.441473
	0.696230	-3.745243	27635.892620			
HLA B*2705	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.412081
	0.666762	-3.745319	25827.444631			
HLA B*1503	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.412124
	0.666762	-3.745361	25829.959779			
HLA B*3901	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.416501
	0.671022	-3.745479	26091.606522			
HLA A*0202	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.453024
	0.707433	-3.745590	28380.730181			
HLA B*0702	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.365214
	0.619394	-3.745820	23185.363671			
HLA B*3901	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.459496
	0.713674	-3.745822	28806.891443			
HLA B*0702	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.442082
	0.696230	-3.745852	27674.642104			

HLA A*0101	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.368019
	0.621958	-3.746061	23335.612122			
HLA A*3301	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.555186
	0.809025	-3.746162	35907.586982			
HLA A*8001	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.433821
	0.687624	-3.746197	27153.212844			
HLA B*4801	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.426303
	0.680076	-3.746226	26687.191492			
HLA B*4801	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.412998
	0.666762	-3.746236	25881.994366			
HLA B*0801	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.380295
	0.634040	-3.746255	24004.643282			
HLA B*5101	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.459957
	0.713674	-3.746283	28837.452692			
HLA B*0801	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.324495
	0.578083	-3.746412	21110.328321			
HLA B*4501	1:14-22	9	LLCCSGVAT	1.136854	-0.272198	-4.611701
	0.864656	-3.747045	40897.874077			
HLA B*4002	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.594399
	0.847335	-3.747064	39300.595031			
HLA A*8001	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.326840
	0.579719	-3.747121	21224.612685			
HLA B*1502	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.595127
	0.847335	-3.747792	39366.560006			
HLA A*2902	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.445583
	0.697746	-3.747837	27898.621562			
HLA B*1509	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.414889
	0.666762	-3.748127	25994.955227			
HLA A*0202	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.583634
	0.835252	-3.748382	38338.382463			
HLA A*0219	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.416743
	0.667964	-3.748779	26106.149301			

HLA B*5701	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.428986
	0.680076	-3.748910	26852.577814			
HLA B*3801	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.501009
	0.751912	-3.749097	31696.364063			
HLA B*3901	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.397378
	0.648272	-3.749106	24967.689917			
HLA A*3301	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.553443
	0.804086	-3.749357	35763.737890			
HLA B*1502	1:27-35	9	TYCEELKGT	0.991738	-0.153839	-4.587257
	0.837899	-3.749358	38659.540827			
HLA A*2602	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.529055
	0.779687	-3.749368	33810.784602			
HLA B*1517	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.445599
	0.696230	-3.749369	27899.678081			
HLA B*2705	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.447117
	0.697746	-3.749371	27997.352128			
HLA A*2902	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.329093
	0.579719	-3.749374	21335.013890			
HLA A*2501	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.452652
	0.702788	-3.749865	28356.481763			
HLA A*3101	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.398440
	0.648272	-3.750168	25028.817364			
HLA B*0702	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.458543
	0.707999	-3.750543	28743.688989			
HLA B*1502	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.413491
	0.662917	-3.750574	25911.415006			
HLA A*8001	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.453367
	0.702788	-3.750579	28403.155381			
HLA B*4801	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.439265
	0.688457	-3.750808	27495.712662			
HLA B*5301	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-3.535171
	-0.215742	-3.750913	3429.030945			

HLA A*1101	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.491515
	0.740601	-3.750914	31010.957630			
HLA A*0212	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.370371
	0.619394	-3.750977	23462.324222			
HLA A*2402	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.541522
	0.790540	-3.750982	34795.382613			
HLA A*8001	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.448832
	0.697746	-3.751086	28108.138420			
HLA B*0802	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.459203
	0.707999	-3.751204	28787.417767			
HLA B*7301	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.476568
	0.725355	-3.751213	29961.789881			
HLA A*2403	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.414203
	0.662917	-3.751286	25953.923735			
HLA A*0201	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.370688
	0.619394	-3.751294	23479.465838			
HLA B*4402	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.422344
	0.671022	-3.751322	26445.025472			
HLA B*5301	1:78-869		LSAATSSTP	0.733359	0.025119	-4.509886
	0.758478	-3.751408	32350.857811			
HLA B*5101	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.458864
	0.707433	-3.751431	28765.000409			
HLA A*1101	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.474907
	0.723137	-3.751770	29847.411155			
HLA A*0219	1:34-429		GTDGQACQ	0.815488	-0.167073	-4.400247
	0.648415	-3.751832	25133.159260			
HLA A*0301	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.365508
	0.613638	-3.751869	23201.047754			
HLA B*3501	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.374102
	0.621958	-3.752144	23664.755083			
HLA A*3201	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.590142
	0.837899	-3.752243	38917.224443			

HLA B*1517	1:49-579		AYNINISLP	0.584960	0.117828	-4.455124
	0.702788	-3.752336	28518.324370			
HLA A*2602	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.466063
	0.713674	-3.752389	29245.779857			
HLA B*3901	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.493113
	0.740601	-3.752512	31125.248496			
HLA A*1101	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.459649
	0.706847	-3.752802	28817.022960			
HLA B*1509	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.543406
	0.790540	-3.752866	34946.678400			
HLA A*0212	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.449528
	0.696230	-3.753297	28153.184804			
HLA B*3801	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.476887
	0.723137	-3.753751	29983.842227			
HLA B*2705	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.442268
	0.688457	-3.753811	27686.472254			
HLA A*6801	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.589251
	0.835252	-3.753999	38837.512337			
HLA A*2602	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.589329
	0.835252	-3.754077	38844.446475			
HLA B*4402	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-3.748190
	-0.005967	-3.754157	5600.023011			
HLA B*4801	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.422248
	0.667964	-3.754283	26439.160471			
HLA A*2902	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.089636
	0.335272	-3.754364	12292.374075			
HLA A*0206	1:53-619		NISLPSYYP	0.515820	0.118220	-4.388568
	0.634040	-3.754528	24466.271642			
HLA B*4501	1:154-162	9	PLPVVFPVIV	1.026322	-0.131179	-4.649746
	0.895143	-3.754603	44642.236517			
HLA B*5401	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.558901
	0.804086	-3.754815	36216.022972			

HLA A*2301	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.506745
	0.751912	-3.754832	32117.707558			
HLA A*2501	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.421630
	0.666762	-3.754868	26401.569560			
HLA B*3501	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.334593
	0.579719	-3.754874	21606.930466			
HLA B*5301	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.534729
	0.779687	-3.755042	34255.416731			
HLA A*0250	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.541566
	0.786460	-3.755107	34798.959341			
HLA B*1517	1:17-25 9		CSGVATAAP	0.698375	-0.030411	-4.423333
	0.667964	-3.755369	26505.324333			
HLA A*8001	1:17-25 9		CSGVATAAP	0.698375	-0.030411	-4.423343
	0.667964	-3.755378	26505.897903			
HLA B*0801	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.418538
	0.662917	-3.755621	26214.273364			
HLA A*6901	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.377598
	0.621958	-3.755640	23856.023164			
HLA B*5301	1:27-35 9		TYCEELKGT	0.991738	-0.153839	-4.593687
	0.837899	-3.755788	39236.226407			
HLA B*4501	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.608863
	0.852998	-3.755865	40631.471932			
HLA A*0219	1:49-57 9		AYNINISLP	0.584960	0.117828	-4.458693
	0.702788	-3.755905	28753.642723			
HLA B*5401	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.564154
	0.808230	-3.755924	36656.770915			
HLA B*4501	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.481419
	0.725355	-3.756065	30298.382259			
HLA A*1101	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.481478
	0.725355	-3.756123	30302.480309			
HLA B*5301	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.404415
	0.648272	-3.756143	25375.526951			

HLA A*3002	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.464278
	0.707999	-3.756278	29125.782228			
HLA B*1502	1:64-72	9	KSLENYIAQ	0.805806	0.003219	-4.565500
	0.809025	-3.756476	36770.578313			
HLA A*6802	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-3.933395
	0.176828	-3.756567	8578.177242			
HLA A*0202	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.459731
	0.702905	-3.756826	28822.479868			
HLA A*2403	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.327890
	0.570132	-3.757758	21276.000586			
HLA B*4001	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.406036
	0.648272	-3.757764	25470.426325			
HLA B*0702	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.425934
	0.667964	-3.757970	26664.534280			
HLA A*2501	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.465509
	0.707433	-3.758075	29208.464606			
HLA B*2705	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.429157
	0.671022	-3.758135	26863.184580			
HLA A*0211	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.351129
	0.592876	-3.758253	22445.472376			
HLA B*7301	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.421204
	0.662917	-3.758287	26375.730062			
HLA A*0203	1:34-42	9	GTDTGQACQ	0.815488	-0.167073	-4.406840
	0.648415	-3.758425	25517.594873			
HLA B*4601	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.406727
	0.648272	-3.758454	25510.969460			
HLA B*0702	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.461383
	0.702788	-3.758595	28932.304850			
HLA B*5401	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.501317
	0.742712	-3.758605	31718.835094			
HLA B*4601	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.380666
	0.621958	-3.758709	24025.170323			

HLA B*4601	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.407178
	0.648415	-3.758763	25537.481438			
HLA B*5101	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.465845
	0.706847	-3.758998	29231.069430			
HLA B*4403	1:82-909		TSSTPREAP	0.792178	0.117162	-4.668448
	0.909340	-3.759108	46606.645375			
HLA A*0201	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.381155
	0.621958	-3.759197	24052.220028			
HLA B*0802	1:49-579		AYNINISLP	0.584960	0.117828	-4.461987
	0.702788	-3.759199	28972.558611			
HLA A*8001	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.462114
	0.702905	-3.759208	28981.023717			
HLA B*3901	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.378963
	0.619394	-3.759569	23931.124082			
HLA A*6802	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.426352
	0.666762	-3.759590	26690.223534			
HLA B*4002	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.615779
	0.856017	-3.759762	41283.778511			
HLA A*2301	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.536686
	0.776623	-3.760064	34410.134983			
HLA A*2902	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.463018
	0.702905	-3.760113	29041.448510			
HLA A*8001	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.408773
	0.648272	-3.760501	25631.461148			
HLA B*1503	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.474190
	0.713674	-3.760516	29798.203052			
HLA B*4403	1:64-729		KSLENYIAQ	0.805806	0.003219	-4.569563
	0.809025	-3.760538	37116.132797			
HLA A*0211	1:49-579		AYNINISLP	0.584960	0.117828	-4.463418
	0.702788	-3.760630	29068.169669			
HLA B*1517	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.467496
	0.706847	-3.760649	29342.451299			

HLA B*4801	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.380307
	0.619394	-3.760913	24005.292604			
HLA B*1517	1:18-269		SGVATAAPK	0.424227	0.140104	-4.325738
	0.564331	-3.761407	21170.829051			
HLA B*5701	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.341343
	0.579719	-3.761624	21945.381989			
HLA A*2402	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.565775
	0.804086	-3.761690	36793.859876			
HLA A*8001	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.410249
	0.648415	-3.761834	25718.689832			
HLA A*0203	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.458082
	0.696230	-3.761852	28713.227109			
HLA A*3002	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.234679
	0.472542	-3.762137	17166.386054			
HLA B*4402	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.428955
	0.666762	-3.762193	26850.689377			
HLA A*3001	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.301893
	0.539612	-3.762281	20039.779658			
HLA B*4002	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.615721
	0.852998	-3.762723	41278.195372			
HLA A*0301	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.363581
	0.600517	-3.763064	23098.353326			
HLA B*0803	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.464738
	0.701666	-3.763072	29156.681788			
HLA B*2705	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.382659
	0.619394	-3.763265	24135.641061			
HLA A*0216	1:53-619		NISLPSYYP	0.515820	0.118220	-4.397360
	0.634040	-3.763320	24966.609361			
HLA A*8001	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.434566
	0.671022	-3.763544	27199.818787			
HLA B*1501	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-3.639155
	-0.124403	-3.763558	4356.672473			

HLA B*5801	1:73-819	TRDKFLSAA	0.841706	-0.248830	-4.356493	
	0.592876	-3.763617	22724.410402			
HLA A*0203	1:11-199	AVVLLCCSG	0.891360	-0.444728	-4.210263	
	0.446632	-3.763631	16227.926312			
HLA A*3301	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.611057
	0.847335	-3.763722	40837.295673			
HLA B*0802	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.471194	
	0.707433	-3.763761	29593.373936			
HLA B*4402	1:34-429	GTDGQACQ	0.815488	-0.167073	-4.412340	
	0.648415	-3.763925	25842.818802			
HLA B*3801	1:78-869	LSAATSSTP	0.733359	0.025119	-4.522611	
	0.758478	-3.764133	33312.759666			
HLA A*6801	1:154-162	9	PLPVVPIV	1.026322	-0.131179	-4.659853
	0.895143	-3.764711	45693.395146			
HLA B*5301	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.532300
	0.767355	-3.764945	34064.332855			
HLA A*3301	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.555494
	0.790540	-3.764954	35933.043546			
HLA B*0802	1:19-279	GVATAAPKT	1.007855	-0.294181	-4.478967	
	0.713674	-3.765292	30127.741627			
HLA A*0219	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.461583	
	0.696230	-3.765352	28945.612157			
HLA B*1502	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.508462
	0.742712	-3.765750	32244.972652			
HLA A*0206	1:31-399	ELKGTDTGQ	0.941370	-0.200769	-4.506366	
	0.740601	-3.765765	32089.745466			
HLA B*5301	1:64-729	KSLENYIAQ	0.805806	0.003219	-4.574837	
	0.809025	-3.765813	37569.664235			
HLA B*3801	1:31-399	ELKGTDTGQ	0.941370	-0.200769	-4.506467	
	0.740601	-3.765866	32097.211219			
HLA B*7301	1:27-359	TYCEELKGT	0.991738	-0.153839	-4.603830	
	0.837899	-3.765931	40163.352661			

HLA A*3001	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.303730
	0.537766	-3.765964	20124.738197			
HLA B*7301	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.556920
	0.790540	-3.766380	36051.234523			
HLA B*0702	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.388497
	0.621958	-3.766539	24462.301170			
HLA B*7301	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.546230
	0.779687	-3.766543	35174.666166			
HLA A*1101	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.433436
	0.666762	-3.766674	27129.132605			
HLA B*0802	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.464583
	0.697746	-3.766837	29146.273175			
HLA B*1801	1:53-619		NISLPSYYP	0.515820	0.118220	-4.401232
	0.634040	-3.767192	25190.194304			
HLA A*2402	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.519373
	0.751912	-3.767461	33065.342171			
HLA B*1509	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.463754
	0.696230	-3.767523	29090.665917			
HLA B*7301	1:75-839		DKFLSAATS	1.204544	-0.986239	-3.985944
	0.218305	-3.767638	9681.521114			
HLA A*2301	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.515821
	0.748062	-3.767759	32795.979023			
HLA B*3901	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.416489
	0.648415	-3.768074	26090.900768			
HLA B*5801	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.334464
	0.566374	-3.768090	21600.502412			
HLA B*4601	1:91-999		YELNITSAT	0.787532	-0.429583	-4.126217
	0.357949	-3.768268	13372.642962			
HLA B*1509	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.466329
	0.697746	-3.768583	29263.663779			
HLA A*3201	1:183-191	9	DPVNYQNFA	1.302206	-0.446189	-4.624606
	0.856017	-3.768589	42131.454698			

HLA A*2301	1:78-86 9	LSAATSSTP	0.733359	0.025119	-4.527138
	0.758478	-3.768660	33661.856884		
HLA A*6801	1:153-161 9	DPLPVVFP	0.780193	-0.026100	-4.522803
	0.754093	-3.768710	33327.540848		
HLA B*1801	1:19-27 9	GVATAAPKT	1.007855	-0.294181	-4.482545
	0.713674	-3.768871	30376.997390		
HLA A*1101	1:32-40 9	LKGTDTGQA	1.058870	-0.351437	-4.476347
	0.707433	-3.768913	29946.557298		
HLA A*0219	1:88-96 9	EAPYELNIT	1.024679	-0.321774	-4.472195
	0.702905	-3.769290	29661.653853		
HLA A*3301	1:53-61 9	NISLPSYYP	0.515820	0.118220	-4.403567
	0.634040	-3.769527	25326.017669		
HLA B*5801	1:203-211 9	PGELLPEAA	1.144110	-0.557015	-4.356852
	0.587095	-3.769757	22743.227480		
HLA A*2301	1:200-208 9	FFNPGELLP	0.676947	-0.010185	-4.436695
	0.666762	-3.769932	27333.462128		
HLA B*3501	1:162-170 9	VQGELSKQT	0.977010	-0.314093	-4.432865
	0.662917	-3.769948	27093.491996		
HLA B*5101	1:31-39 9	ELKGTDTGQ	0.941370	-0.200769	-4.510950
	0.740601	-3.770349	32430.236630		
HLA A*2501	1:170-178 9	TGQQVSIAP	0.814303	-0.116557	-4.468159
	0.697746	-3.770413	29387.249976		
HLA B*0702	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.450559
	0.680076	-3.770483	28220.126426		
HLA A*0101	1:40-48 9	ACQIQMSDP	0.533748	0.079890	-4.384282
	0.613638	-3.770644	24226.034571		
HLA B*4501	1:169-177 9	QTGQQVSIA	0.950594	-0.262137	-4.459318
	0.688457	-3.770861	28795.049878		
HLA A*2902	1:17-25 9	CSGVATAAP	0.698375	-0.030411	-4.438835
	0.667964	-3.770871	27468.505109		
HLA A*3001	1:164-172 9	GELSKQTGQ	0.717063	-0.197435	-4.290503
	0.519628	-3.770875	19521.025950		

HLA B*3501	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.451078
	0.680076	-3.771002	28253.886177			
HLA B*7301	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.606311
	0.835252	-3.771059	40393.456234			
HLA B*5101	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.459572
	0.688457	-3.771115	28811.878821			
HLA A*3101	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.393187
	0.621958	-3.771229	24727.879788			
HLA B*1503	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.468984
	0.697746	-3.771238	29443.105590			
HLA A*3002	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.459186
	0.687624	-3.771562	28786.327630			
HLA B*4801	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.419886
	0.648272	-3.771614	26295.802447			
HLA A*3301	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.625088
	0.853458	-3.771630	42178.205550			
HLA A*2603	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.607126
	0.835252	-3.771874	40469.355321			
HLA A*6901	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.385579
	0.613638	-3.771941	24298.487908			
HLA A*6801	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-3.932728
	0.160477	-3.772251	8565.007776			
HLA B*0702	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.372812
	0.600517	-3.772295	23594.574342			
HLA A*0212	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.365174
	0.592876	-3.772298	23183.231455			
HLA B*4402	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.420631
	0.648272	-3.772359	26340.936725			
HLA B*0802	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.460843
	0.688457	-3.772386	28896.327508			
HLA A*0101	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.063909
	0.291433	-3.772476	11585.343294			

HLA B*0802	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.469209
	0.696230	-3.772979	29458.400819		
HLA B*5801	1:165-173 9	ELSKQTGQQ	0.723302	-0.142086	-4.354256
	0.581216	-3.773040	22607.675678		
HLA B*3501	1:53-61 9	NISLPSYYP	0.515820	0.118220	-4.407084
	0.634040	-3.773044	25531.955838		
HLA B*1517	1:202-210 9	NPCELLPEA	1.188654	-0.463299	-4.498446
	0.725355	-3.773091	31509.837130		
HLA A*2602	1:115-123 9	KVYQNAGGT	0.678003	-0.098284	-4.352844
	0.579719	-3.773125	22534.289727		
HLA A*2601	1:41-49 9	CQIQMSDPA	0.720301	-0.119784	-4.373721
	0.600517	-3.773204	23644.024329		
HLA A*0250	1:153-161 9	DPLPVVFP	0.780193	-0.026100	-4.527413
	0.754093	-3.773320	33683.170137		
HLA B*3801	1:111-119 9	AVVLKVYQN	1.224563	-0.434023	-4.563915
	0.790540	-3.773375	36636.548970		
HLA B*4601	1:41-49 9	CQIQMSDPA	0.720301	-0.119784	-4.373914
	0.600517	-3.773397	23654.515403		
HLA A*0216	1:88-96 9	EAPYELNIT	1.024679	-0.321774	-4.476359
	0.702905	-3.773453	29947.367347		
HLA B*4403	1:154-162 9	PLPVVFP	1.026322	-0.131179	-4.668638
	0.895143	-3.773495	46627.072930		
HLA B*5401	1:17-25 9	CSGVATAAP	0.698375	-0.030411	-4.441516
	0.667964	-3.773551	27638.583879		
HLA B*5301	1:111-119 9	AVVLKVYQN	1.224563	-0.434023	-4.564208
	0.790540	-3.773668	36661.332307		
HLA A*3002	1:90-98 9	PYELNITSA	1.095994	-0.320723	-4.549103
	0.775271	-3.773833	35408.163706		
HLA B*4403	1:183-191 9	DPVNYQNFA	1.302206	-0.446189	-4.629914
	0.856017	-3.773897	42649.499711		
HLA B*0801	1:98-106 9	ATYQSAIPP	0.417465	0.201929	-4.393565
	0.619394	-3.774171	24749.426960		

HLA A*0301	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.367162
	0.592876	-3.774286	23289.578863			
HLA A*2603	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.354178
	0.579719	-3.774460	22603.639972			
HLA B*7301	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.526377
	0.751912	-3.774465	33602.905923			
HLA B*3801	1:90-989		PYELNITSA	1.095994	-0.320723	-4.549937
	0.775271	-3.774667	35476.230802			
HLA A*3101	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.354681
	0.579719	-3.774962	22629.823728			
HLA B*4601	1:53-619		NISLPSYYP	0.515820	0.118220	-4.409032
	0.634040	-3.774992	25646.718657			
HLA A*2301	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.517834
	0.742712	-3.775122	32948.383222			
HLA A*6801	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.523221
	0.748062	-3.775160	33359.649403			
HLA B*5301	1:65-739		SLENYIAQT	1.098356	-0.294270	-4.579261
	0.804086	-3.775176	37954.335652			
HLA B*5401	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.482770
	0.707433	-3.775337	30392.777762			
HLA A*0201	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.368454
	0.592876	-3.775578	23358.978782			
HLA B*5301	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.583824
	0.808230	-3.775594	38355.186062			
HLA B*4402	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.395496
	0.619394	-3.776103	24859.730977			
HLA B*1801	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.464651
	0.688457	-3.776194	29150.846199			
HLA A*2402	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.562803
	0.786460	-3.776344	36542.920370			
HLA A*3201	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.611736
	0.835252	-3.776484	40901.193006			

HLA B*0802	1:17-25 9	CSGVATAAP	0.698375	-0.030411	-4.444469
	0.667964	-3.776505	27827.173123		
HLA B*1517	1:135-143 9	DQAYRK PIT	1.136670	-0.428671	-4.484528
	0.707999	-3.776529	30516.014264		
HLA B*4001	1:53-61 9	NISLPSYYP	0.515820	0.118220	-4.410637
	0.634040	-3.776597	25741.657399		
HLA A*6802	1:162-170 9	VQGELSKQT	0.977010	-0.314093	-4.439768
	0.662917	-3.776850	27527.563329		
HLA B*3901	1:162-170 9	VQGELSKQT	0.977010	-0.314093	-4.439859
	0.662917	-3.776942	27533.371864		
HLA B*5701	1:34-42 9	GDTGQACQ	0.815488	-0.167073	-4.425636
	0.648415	-3.777221	26646.220546		
HLA A*0216	1:186-194 9	NYQNFAVTN	1.119422	-0.431798	-4.464912
	0.687624	-3.777288	29168.356472		
HLA B*4501	1:128-136 9	TYKAFDWDQ	0.746622	0.061608	-4.585631
	0.808230	-3.777401	38515.083863		
HLA B*3901	1:169-177 9	QTGQQVSIA	0.950594	-0.262137	-4.466068
	0.688457	-3.777611	29246.096291		
HLA B*0803	1:49-57 9	AYNINISLP	0.584960	0.117828	-4.480416
	0.702788	-3.777629	30228.473087		
HLA A*0216	1:170-178 9	TGQQVSIAP	0.814303	-0.116557	-4.475565
	0.697746	-3.777819	29892.657347		
HLA B*1509	1:186-194 9	NYQNFAVTN	1.119422	-0.431798	-4.465551
	0.687624	-3.777927	29211.309007		
HLA B*0702	1:162-170 9	VQGELSKQT	0.977010	-0.314093	-4.441133
	0.662917	-3.778216	27614.222589		
HLA A*0301	1:97-105 9	SATYQSAIP	0.500068	0.078015	-4.356352
	0.578083	-3.778269	22717.035407		
HLA A*2601	1:120-128 9	AGGTHPTTT	0.991249	-0.369291	-4.400407
	0.621958	-3.778449	25142.406758		
HLA B*4403	1:220-228 9	RSAIDSMLA	1.010961	-0.163626	-4.625946
	0.847335	-3.778610	42261.573319		

HLA B*1517	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.356807
	0.578083	-3.778725	22740.889871			
HLA B*3901	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.481704
	0.702905	-3.778798	30318.221970			
HLA A*2501	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.466566
	0.687624	-3.778942	29279.657779			
HLA B*1517	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.459273
	0.680076	-3.779197	28792.090248			
HLA A*2902	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.442197
	0.662917	-3.779280	27681.979197			
HLA B*4001	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.393248
	0.613638	-3.779610	24731.358185			
HLA B*5101	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.487648
	0.707999	-3.779649	30736.040891			
HLA A*0212	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-3.820310
	0.040514	-3.779795	6611.646162			
HLA A*0202	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.372695
	0.592876	-3.779819	23588.193003			
HLA B*1501	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.393591
	0.613638	-3.779953	24750.899812			
HLA B*4501	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.584066
	0.804086	-3.779980	38376.564240			
HLA A*6802	1:34-42	9	GTDTGQACQ	0.815488	-0.167073	-4.428892
	0.648415	-3.780477	26846.767664			
HLA B*7301	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.534586
	0.754093	-3.780493	34244.114198			
HLA B*1517	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.443449
	0.662917	-3.780532	27761.914569			
HLA B*4501	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.400191
	0.619394	-3.780797	25129.896249			
HLA A*0216	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.403048
	0.621958	-3.781090	25295.756343			

HLA A*0211	1:53-619		NISLPSYYP	0.515820	0.118220	-4.415138
	0.634040	-3.781098	26009.866264			
HLA A*3002	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.504282
	0.723137	-3.781146	31936.129386			
HLA A*0211	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.362376
	0.581216	-3.781159	23034.337957			
HLA B*5701	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.215653
	0.434427	-3.781226	16430.574373			
HLA A*0301	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.368421
	0.587095	-3.781326	23357.209676			
HLA B*3901	1:49-579		AYNINISLP	0.584960	0.117828	-4.484182
	0.702788	-3.781395	30491.755937			
HLA B*5801	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.359516
	0.578083	-3.781434	22883.181815			
HLA B*0802	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.488313
	0.706847	-3.781466	30783.133768			
HLA A*0201	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.395273
	0.613638	-3.781635	24846.957862			
HLA A*2601	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.395306
	0.613638	-3.781668	24848.839804			
HLA A*0250	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.452735
	0.671022	-3.781712	28361.851461			
HLA B*5701	1:53-619		NISLPSYYP	0.515820	0.118220	-4.415871
	0.634040	-3.781831	26053.805009			
HLA B*5401	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.549200
	0.767355	-3.781845	35416.018301			
HLA A*6801	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.470422
	0.688457	-3.781964	29540.748911			
HLA A*6802	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.347024
	0.564800	-3.782224	22234.337799			
HLA B*1801	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.343695
	0.561410	-3.782285	22064.545156			

HLA B*5801	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.352454
	0.570132	-3.782321	22514.062082			
HLA B*4002	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.445423
	0.662917	-3.782506	27888.360315			
HLA B*3901	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.490077
	0.707433	-3.782644	30908.454713			
HLA B*2705	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.462981
	0.680076	-3.782904	29038.934843			
HLA B*5801	1:18-269		SGVATAAPK	0.424227	0.140104	-4.347623
	0.564331	-3.783293	22265.031718			
HLA B*4801	1:53-619		NISLPSYYP	0.515820	0.118220	-4.417448
	0.634040	-3.783408	26148.553114			
HLA B*5101	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.450185
	0.666762	-3.783423	28195.862690			
HLA A*2402	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.526140
	0.742712	-3.783427	33584.550351			
HLA B*0702	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.486356
	0.702905	-3.783450	30644.723597			
HLA B*0802	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.486849
	0.702905	-3.783944	30679.558138			
HLA A*0250	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.509477
	0.725355	-3.784122	32320.419606			
HLA B*1509	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.509606
	0.725355	-3.784251	32330.037781			
HLA B*1502	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.471967
	0.687624	-3.784343	29646.092709			
HLA B*1503	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.509714
	0.725355	-3.784359	32338.084271			
HLA A*0211	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.451243
	0.666762	-3.784480	28264.587731			
HLA B*1503	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.480743
	0.696230	-3.784512	30251.212679			

HLA B*4801	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.432945
	0.648415	-3.784530	27098.475929			
HLA A*2403	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.404020
	0.619394	-3.784627	25352.474591			
HLA B*0803	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.498542
	0.713674	-3.784868	31516.826959			
HLA A*0216	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.304623
	0.519628	-3.784995	20166.152340			
HLA B*1502	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.385629
	0.600517	-3.785111	24301.248560			
HLA A*0211	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.433563
	0.648415	-3.785148	27137.059105			
HLA B*1501	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.355503
	0.570132	-3.785371	22672.713013			
HLA A*8001	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.385922
	0.600517	-3.785405	24317.687500			
HLA B*5301	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.488393
	0.702905	-3.785487	30788.796422			
HLA B*3901	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.057185
	0.271476	-3.785709	11407.347751			
HLA B*4002	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.565479
	0.779687	-3.785792	36768.788034			
HLA A*3301	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.572319
	0.786460	-3.785859	37352.413252			
HLA B*0803	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.466239
	0.680076	-3.786163	29257.648497			
HLA A*3101	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.364359
	0.578083	-3.786276	23139.751985			
HLA B*5101	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.457333
	0.671022	-3.786310	28663.717856			
HLA A*1101	1:135-143	9	DQAYRKPIT	1.136670	-0.428671	-4.494405
	0.707999	-3.786406	31217.997692			

HLA B*4402	1:53-619		NISLPSYYP	0.515820	0.118220	-4.420521
	0.634040	-3.786481	26334.240004			
HLA A*2501	1:34-429		GTDGQACQ	0.815488	-0.167073	-4.434963
	0.648415	-3.786548	27224.698171			
HLA A*2403	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.028549
	0.241980	-3.786570	10679.456668			
HLA B*1517	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.489720
	0.702905	-3.786815	30883.049041			
HLA B*0802	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.474474
	0.687624	-3.786850	29817.715239			
HLA B*1501	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.239524
	0.452621	-3.786903	17358.952436			
HLA A*2403	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.408999
	0.621958	-3.787041	25644.776288			
HLA B*3501	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.208224
	0.421102	-3.787122	16151.902115			
HLA A*6802	1:18-269		SGVATAAPK	0.424227	0.140104	-4.351491
	0.564331	-3.787160	22464.180005			
HLA B*4801	1:18-269		SGVATAAPK	0.424227	0.140104	-4.351780
	0.564331	-3.787449	22479.133012			
HLA A*0206	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.454302
	0.666762	-3.787539	28464.377119			
HLA B*4501	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.625675
	0.837899	-3.787776	42235.288997			
HLA A*2603	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.541902
	0.754093	-3.787809	34825.890724			
HLA B*0803	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.494786
	0.706847	-3.787939	31245.369201			
HLA B*5101	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.485738
	0.697746	-3.787992	30601.153262			
HLA B*0801	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.240677
	0.452621	-3.788056	17405.123545			

HLA B*4601	1:40-48 9	ACQIQMSDP	0.533748	0.079890	-4.401972
	0.613638	-3.788333	25233.157891		
HLA A*0206	1:170-178 9	TGQQVSIAP	0.814303	-0.116557	-4.486285
	0.697746	-3.788539	30639.750464		
HLA A*1101	1:88-96 9	EAPYELNIT	1.024679	-0.321774	-4.491651
	0.702905	-3.788746	31020.689575		
HLA B*4001	1:120-128 9	AGGTHPTTT	0.991249	-0.369291	-4.410801
	0.621958	-3.788843	25751.407411		
HLA A*2402	1:129-137 9	YKAFDWDQA	0.955276	-0.207214	-4.537135
	0.748062	-3.789073	34445.708967		
HLA A*1101	1:186-194 9	NYQNFVAVTN	1.119422	-0.431798	-4.476716
	0.687624	-3.789091	29972.003289		
HLA A*6802	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.236218
	0.446632	-3.789586	17227.322654		
HLA B*5801	1:195-203 9	DGVIFFFNP	0.675455	-0.114045	-4.351007
	0.561410	-3.789596	22439.159033		
HLA B*3901	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.469679
	0.680076	-3.789603	29490.291405		
HLA A*0301	1:101-109 9	QSAIPPRGT	0.865514	-0.299140	-4.355999
	0.566374	-3.789625	22698.608388		
HLA B*4002	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.627637
	0.837899	-3.789738	42426.508238		
HLA B*0702	1:200-208 9	FFNPGELLP	0.676947	-0.010185	-4.456592
	0.666762	-3.789830	28614.913179		
HLA B*4001	1:165-173 9	ELSKQTGQQ	0.723302	-0.142086	-4.371153
	0.581216	-3.789937	23504.629531		
HLA A*0301	1:176-184 9	IAPNAGLDP	0.476515	0.093617	-4.360155
	0.570132	-3.790023	22916.878971		
HLA B*1501	1:205-213 9	ELLPEAAGP	0.578973	-0.041207	-4.327866
	0.537766	-3.790101	21274.849609		
HLA B*7301	1:128-136 9	TYKAFDWDQ	0.746622	0.061608	-4.598374
	0.808230	-3.790144	39661.985779		

HLA B*0801	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.211729
	0.421102	-3.790627	16282.800641			
HLA B*4001	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.370359
	0.579719	-3.790640	23461.689587			
HLA B*1501	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.357134
	0.566374	-3.790760	22757.996874			
HLA A*0250	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.457704
	0.666762	-3.790942	28688.229001			
HLA B*4403	1:14-229		LLCCSGVAT	1.136854	-0.272198	-4.655728
	0.864656	-3.791072	45261.373914			
HLA A*1101	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.462149
	0.671022	-3.791127	28983.375575			
HLA A*3101	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.384045
	0.592876	-3.791169	24212.801110			
HLA A*3002	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.494165
	0.702905	-3.791260	31200.776081			
HLA A*2603	1:220-228	9	RSAIDSMLA	1.010961	-0.163626	-4.638614
	0.847335	-3.791279	43512.504791			
HLA B*0803	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.479058
	0.687624	-3.791434	30134.098820			
HLA A*3101	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.405324
	0.613638	-3.791686	25428.709494			
HLA A*3301	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.627071
	0.835252	-3.791819	42371.229310			
HLA A*2501	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.459999
	0.667964	-3.792035	28840.260962			
HLA A*0101	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.371830
	0.579719	-3.792111	23541.279418			
HLA A*3002	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.540241
	0.748062	-3.792179	34692.943359			
HLA B*2705	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.495192
	0.702905	-3.792287	31274.625769			

HLA A*2603	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.373618
	0.581216	-3.792402	23638.396890			
HLA A*3101	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.393032
	0.600517	-3.792514	24719.052209			
HLA A*2603	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.535260
	0.742712	-3.792548	34297.324214			
HLA B*1801	1:49-579		AYNINISLP	0.584960	0.117828	-4.495413
	0.702788	-3.792625	31290.533886			
HLA B*5801	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.357526
	0.564800	-3.792726	22778.566911			
HLA A*6901	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.370871
	0.578083	-3.792789	23489.375590			
HLA A*8001	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.412537
	0.619394	-3.793144	25854.565241			
HLA A*2403	1:53-619		NISLPSYYP	0.515820	0.118220	-4.427579
	0.634040	-3.793539	26765.702239			
HLA B*5101	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.456623
	0.662917	-3.793706	28616.925695			
HLA B*0802	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.442160
	0.648415	-3.793745	27679.583197			
HLA B*1517	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.481563
	0.687624	-3.793938	30308.382473			
HLA A*0101	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.375178
	0.581216	-3.793962	23723.462639			
HLA A*8001	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.375195
	0.581216	-3.793978	23724.361045			
HLA B*0702	1:53-619		NISLPSYYP	0.515820	0.118220	-4.428027
	0.634040	-3.793988	26793.373234			
HLA B*3501	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.442585
	0.648415	-3.794170	27706.700041			
HLA A*2402	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.570904
	0.776623	-3.794282	37230.963532			

HLA B*5101	1:49-579		AYNINISLP	0.584960	0.117828	-4.497184
	0.702788	-3.794397	31418.430410			
HLA A*2301	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.501343
	0.706847	-3.794496	31720.722700			
HLA A*2403	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.374252
	0.579719	-3.794534	23672.950018			
HLA A*6901	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.381968
	0.587095	-3.794873	24097.283657			
HLA B*5701	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.416905
	0.621958	-3.794947	26115.896085			
HLA B*0803	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.492751
	0.697746	-3.795005	31099.328137			
HLA A*0216	1:18-269		SGVATAAPK	0.424227	0.140104	-4.359502
	0.564331	-3.795172	22882.439054			
HLA A*3201	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.571994
	0.776623	-3.795372	37324.537666			
HLA A*0219	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.376609
	0.581216	-3.795393	23801.751387			
HLA A*2601	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.388291
	0.592876	-3.795415	24450.658168			
HLA A*6801	1:27-359		TYCEELKGT	0.991738	-0.153839	-4.633563
	0.837899	-3.795664	43009.331406			
HLA B*4002	1:128-136	9	TYKAFDWDQ	0.746622	0.061608	-4.603898
	0.808230	-3.795668	40169.654255			
HLA A*0202	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.242350
	0.446632	-3.795718	17472.294597			
HLA A*0216	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.049690
	0.253787	-3.795902	11212.173873			
HLA B*1509	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.503641
	0.707433	-3.796207	31888.997738			
HLA B*5101	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.492549
	0.696230	-3.796319	31084.862525			

HLA A*3201	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.537119
	0.740601	-3.796518	34444.404560			
HLA B*0803	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.522209
	0.725355	-3.796854	33281.956580			
HLA A*0101	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.375246
	0.578083	-3.797164	23727.184828			
HLA B*1502	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.505239
	0.707999	-3.797239	32006.524621			
HLA B*1502	1:91-999		YELNITSAT	0.787532	-0.429583	-4.155233
	0.357949	-3.797284	14296.620505			
HLA B*4001	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.384402
	0.587095	-3.797307	24232.719561			
HLA B*1801	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.460244
	0.662917	-3.797326	28856.491880			
HLA A*2301	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.520715
	0.723137	-3.797578	33167.640478			
HLA A*0219	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.390685
	0.592876	-3.797809	24585.818956			
HLA B*0802	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.464625
	0.666762	-3.797863	29149.111519			
HLA A*2602	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.546120
	0.748062	-3.798058	35165.723624			
HLA A*0212	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.420323
	0.621958	-3.798365	26322.275636			
HLA A*6901	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.363330
	0.564800	-3.798529	23084.986525			
HLA B*3901	1:89-979		APYELNITS	1.361001	-1.037258	-4.122308
	0.323743	-3.798565	13252.801905			
HLA B*1509	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.417993
	0.619394	-3.798599	26181.392618			
HLA A*2602	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.521894
	0.723137	-3.798757	33257.838396			

HLA A*0202	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.070408
	0.271476	-3.798932	11760.007067			
HLA A*3201	1:90-98 9		PYELNITSA	1.095994	-0.320723	-4.574269
	0.775271	-3.798998	37520.510470			
HLA B*3901	1:53-61 9		NISLPSYYP	0.515820	0.118220	-4.433088
	0.634040	-3.799048	27107.419990			
HLA B*7301	1:78-86 9		LSAATSSTP	0.733359	0.025119	-4.557806
	0.758478	-3.799328	36124.837064			
HLA A*2501	1:53-61 9		NISLPSYYP	0.515820	0.118220	-4.433657
	0.634040	-3.799617	27142.932080			
HLA A*1101	1:17-25 9		CSGVATAAP	0.698375	-0.030411	-4.467799
	0.667964	-3.799835	29362.935830			
HLA A*0203	1:40-48 9		ACQIQMSDP	0.533748	0.079890	-4.413848
	0.613638	-3.800210	25932.730807			
HLA A*0101	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.370439
	0.570132	-3.800307	23466.005439			
HLA A*2301	1:31-39 9		ELKGTDTGQ	0.941370	-0.200769	-4.540922
	0.740601	-3.800322	34747.414721			
HLA B*1517	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.498084
	0.697746	-3.800338	31483.596495			
HLA B*4403	1:184-192	9	PVNYQNFAV	0.967153	-0.114155	-4.653364
	0.852998	-3.800366	45015.714832			
HLA B*4601	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.370911
	0.570132	-3.800779	23491.535963			
HLA A*0301	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.365595
	0.564800	-3.800794	23205.692278			
HLA B*1501	1:73-81 9		TRDKFLSAA	0.841706	-0.248830	-4.393800
	0.592876	-3.800924	24762.819748			
HLA B*4601	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.380749
	0.579719	-3.801030	24029.719826			
HLA B*4601	1:73-81 9		TRDKFLSAA	0.841706	-0.248830	-4.393934
	0.592876	-3.801058	24770.456880			

HLA A*2601	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.379165
	0.578083	-3.801082	23942.260640			
HLA B*3801	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.549310
	0.748062	-3.801248	35425.024492			
HLA B*0803	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.508746
	0.707433	-3.801313	32266.087011			
HLA B*0803	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.468131
	0.666762	-3.801369	29385.342257			
HLA B*0802	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.420791
	0.619394	-3.801397	26350.628613			
HLA B*4001	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.379480
	0.578083	-3.801397	23959.623279			
HLA B*5301	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.549550
	0.748062	-3.801488	35444.577723			
HLA A*0202	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.449934
	0.648415	-3.801519	28179.546008			
HLA A*0219	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.420941
	0.619394	-3.801548	26359.753647			
HLA A*2301	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.527053
	0.725355	-3.801699	33655.301673			
HLA B*4501	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.592376
	0.790540	-3.801836	39117.961892			
HLA A*6801	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.482082
	0.680076	-3.802006	30344.640406			
HLA B*1509	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.490519
	0.688457	-3.802062	30939.906432			
HLA B*2705	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.450745
	0.648415	-3.802330	28232.189756			
HLA B*5101	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.450644
	0.648272	-3.802371	28225.623000			
HLA B*1801	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.469355
	0.666762	-3.802593	29468.283211			

HLA B*0802	1:55-63 9	SLPSYYPDQ	0.698032	-0.017956	-4.482723
	0.680076	-3.802647	30389.489509		
HLA A*0212	1:40-48 9	ACQIQMSDP	0.533748	0.079890	-4.416311
	0.613638	-3.802672	26080.175658		
HLA A*0203	1:203-211 9	PGELLPEAA	1.144110	-0.557015	-4.389858
	0.587095	-3.802762	24539.045198		
HLA B*1517	1:32-40 9	LKGTDTGQA	1.058870	-0.351437	-4.510269
	0.707433	-3.802835	32379.397765		
HLA B*1503	1:101-109 9	QSAIPRGT	0.865514	-0.299140	-4.369286
	0.566374	-3.802912	23403.756443		
HLA A*2403	1:40-48 9	ACQIQMSDP	0.533748	0.079890	-4.416585
	0.613638	-3.802947	26096.688514		
HLA A*0202	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-3.895103
	0.092119	-3.802984	7854.220848		
HLA A*2601	1:205-213 9	ELLPEAAGP	0.578973	-0.041207	-4.341531
	0.537766	-3.803765	21954.881811		
HLA A*2403	1:34-42 9	GTDTGQACQ	0.815488	-0.167073	-4.452192
	0.648415	-3.803777	28326.430235		
HLA A*3201	1:16-24 9	CCSGVATAA	0.892838	-0.221816	-4.474839
	0.671022	-3.803816	29842.728858		
HLA B*0803	1:34-42 9	GTDTGQACQ	0.815488	-0.167073	-4.452385
	0.648415	-3.803970	28338.998936		
HLA A*2602	1:117-125 9	YQNAGGTHP	0.729126	0.047497	-4.580847
	0.776623	-3.804225	38093.185921		
HLA B*3801	1:177-185 9	APNAGLDPV	0.672482	0.029184	-4.505894
	0.701666	-3.804228	32054.870436		
HLA B*4002	1:207-215 9	LPEAAGPTQ	1.054236	-0.218984	-4.639481
	0.835252	-3.804229	43599.453346		
HLA A*3301	1:200-208 9	FFNPGELLP	0.676947	-0.010185	-4.471359
	0.666762	-3.804597	29604.582839		
HLA A*0101	1:18-26 9	SGVATAAPK	0.424227	0.140104	-4.368928
	0.564331	-3.804598	23384.519370		

HLA A*3101	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.366010
	0.561410	-3.804600	23227.923539			
HLA A*2501	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.452944
	0.648272	-3.804671	28375.510417			
HLA B*4402	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.426876
	0.621958	-3.804918	26722.442191			
HLA A*2501	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.467849
	0.662917	-3.804932	29366.271874			
HLA A*0101	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.369786
	0.564800	-3.804986	23430.740284			
HLA A*0301	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.366407
	0.561410	-3.804997	23249.169873			
HLA B*5301	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.556934
	0.751912	-3.805022	36052.404741			
HLA A*0201	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.392287
	0.587095	-3.805192	24676.696973			
HLA A*0216	1:17-25 9		CSGVATAAP	0.698375	-0.030411	-4.473163
	0.667964	-3.805199	29727.839684			
HLA A*0216	1:73-81 9		TRDKFLSAA	0.841706	-0.248830	-4.398083
	0.592876	-3.805207	25008.244548			
HLA B*1801	1:17-25 9		CSGVATAAP	0.698375	-0.030411	-4.473180
	0.667964	-3.805215	29728.965476			
HLA B*4002	1:73-81 9		TRDKFLSAA	0.841706	-0.248830	-4.398349
	0.592876	-3.805473	25023.537199			
HLA B*1517	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.472259
	0.666762	-3.805497	29665.986758			
HLA A*8001	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.427557
	0.621958	-3.805600	26764.399076			
HLA A*3301	1:90-98 9		PYELNITSA	1.095994	-0.320723	-4.580925
	0.775271	-3.805654	38099.987165			
HLA A*3201	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-3.966250
	0.160477	-3.805774	9252.310813			

HLA B*4403	1:27-35 9	TYCEELKGT	0.991738	-0.153839	-4.643755
	0.837899	-3.805856	44030.615585		
HLA B*4001	1:73-81 9	TRDKFLSAA	0.841706	-0.248830	-4.398804
	0.592876	-3.805929	25049.813650		
HLA B*4403	1:128-136 9	TYKAFDWDQ	0.746622	0.061608	-4.614182
	0.808230	-3.805952	41132.185863		
HLA B*5301	1:117-125 9	YQNAGGTHP	0.729126	0.047497	-4.582631
	0.776623	-3.806008	38249.922142		
HLA B*3901	1:200-208 9	FFNPGELLP	0.676947	-0.010185	-4.472823
	0.666762	-3.806060	29704.529302		
HLA B*0801	1:40-48 9	ACQIQMSDP	0.533748	0.079890	-4.419884
	0.613638	-3.806246	26295.660190		
HLA B*5701	1:40-48 9	ACQIQMSDP	0.533748	0.079890	-4.419999
	0.613638	-3.806361	26302.631688		
HLA A*0201	1:101-109 9	QSAIPPRGT	0.865514	-0.299140	-4.372807
	0.566374	-3.806434	23594.319055		
HLA B*0803	1:169-177 9	QTGQQVSIA	0.950594	-0.262137	-4.495272
	0.688457	-3.806815	31280.378835		
HLA B*0702	1:73-81 9	TRDKFLSAA	0.841706	-0.248830	-4.399744
	0.592876	-3.806868	25104.079029		
HLA A*0250	1:32-40 9	LKGTDTGQA	1.058870	-0.351437	-4.514456
	0.707433	-3.807022	32693.058319		
HLA B*7301	1:100-108 9	YQSAIPPRG	0.865176	-0.579148	-4.093240
	0.286028	-3.807212	12394.810118		
HLA B*3901	1:36-44 9	DTGQACQIQ	0.956574	-0.260344	-4.503549
	0.696230	-3.807319	31882.270326		
HLA B*1501	1:203-211 9	PGELLPEAA	1.144110	-0.557015	-4.394484
	0.587095	-3.807389	24801.834005		
HLA B*2705	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-3.899454
	0.091985	-3.807469	7933.308721		
HLA B*0802	1:162-170 9	VQGELSKQT	0.977010	-0.314093	-4.470480
	0.662917	-3.807563	29544.744486		

HLA B*0803	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.503838
	0.696230	-3.807608	31903.492371			
HLA A*0250	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.514521
	0.706847	-3.807674	32698.010937			
HLA B*4801	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.429667
	0.621958	-3.807709	26894.739024			
HLA A*0211	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.505784
	0.697746	-3.808038	32046.721047			
HLA A*0203	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.260869
	0.452621	-3.808248	18233.438832			
HLA A*2403	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.208858
	0.400567	-3.808291	16175.511954			
HLA B*4002	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.612537
	0.804086	-3.808451	40976.716029			
HLA B*3801	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.533855
	0.725355	-3.808500	34186.547755			
HLA B*1503	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.430896
	0.621958	-3.808938	26970.941999			
HLA B*4402	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.401939
	0.592876	-3.809063	25231.246843			
HLA B*4402	1:29-37	9	CEELKGTDT	0.714161	-0.468986	-4.054267
	0.245175	-3.809092	11330.957765			
HLA A*2602	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.489241
	0.680076	-3.809165	30848.984771			
HLA B*7301	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.522862
	0.713674	-3.809188	33332.048610			
HLA A*3101	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.375655
	0.566374	-3.809281	23749.530234			
HLA B*4601	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.373778
	0.564331	-3.809447	23647.094405			
HLA A*3201	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.561443
	0.751912	-3.809531	36428.635120			

HLA A*6802	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.347405
	0.537766	-3.809639	22253.832559			
HLA B*4001	1:18-269		SGVATAAPK	0.424227	0.140104	-4.374297
	0.564331	-3.809966	23675.383436			
HLA A*2602	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.552766
	0.742712	-3.810054	35708.059653			
HLA A*6901	1:89-979		APYELNITS	1.361001	-1.037258	-4.133919
	0.323743	-3.810176	13611.903492			
HLA A*2603	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.513112
	0.702905	-3.810206	32592.047436			
HLA A*6801	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.458521
	0.648272	-3.810249	28742.289522			
HLA A*0206	1:49-579		AYNINISLP	0.584960	0.117828	-4.513062
	0.702788	-3.810275	32588.344940			
HLA B*5701	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.410862
	0.600517	-3.810345	25755.029785			
HLA B*4501	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.587017
	0.776623	-3.810394	38638.214041			
HLA A*2902	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.411015
	0.600517	-3.810497	25764.087948			
HLA B*3501	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.391782
	0.581216	-3.810566	24648.011547			
HLA B*0801	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.397811
	0.587095	-3.810715	24992.555619			
HLA A*0301	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.348511
	0.537766	-3.810745	22310.608915			
HLA A*0101	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.372161
	0.561410	-3.810751	23559.243424			
HLA A*6802	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.432755
	0.621958	-3.810797	27086.603951			
HLA B*0802	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.459111
	0.648272	-3.810839	28781.344674			

HLA A*2402	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.517804
	0.706847	-3.810957	32946.066091			
HLA B*4501	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.482131
	0.671022	-3.811109	30348.087986			
HLA B*5401	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.459393
	0.648272	-3.811121	28800.035207			
HLA B*0803	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.519185
	0.707999	-3.811186	33051.034880			
HLA A*3201	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.512935
	0.701666	-3.811270	32578.826167			
HLA B*4402	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.376163
	0.564800	-3.811362	23777.298638			
HLA B*1801	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.518948
	0.707433	-3.811514	33032.980767			
HLA B*2705	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.097601
	0.286028	-3.811573	12519.890259			
HLA B*2705	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.391364
	0.579719	-3.811645	24624.287915			
HLA A*3002	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.566219
	0.754093	-3.812127	36831.499699			
HLA B*2705	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.508488
	0.696230	-3.812258	32246.891568			
HLA A*0206	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.460711
	0.648415	-3.812296	28887.574582			
HLA A*8001	1:53-619		NISLPSYYP	0.515820	0.118220	-4.446426
	0.634040	-3.812386	27952.857525			
HLA B*1801	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.432184
	0.619394	-3.812790	27051.019213			
HLA B*4501	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.648113
	0.835252	-3.812861	44474.702530			
HLA A*6802	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.426535
	0.613638	-3.812897	26701.488421			

HLA B*1509	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.461327
	0.648415	-3.812912	28928.548600			
HLA B*1509	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.526722
	0.713674	-3.813048	33629.639387			
HLA A*0201	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.391328
	0.578083	-3.813246	24622.289776			
HLA B*0702	1:77-859		FLSAATSST	0.627583	-0.297236	-4.143594
	0.330347	-3.813247	13918.551495			
HLA B*1517	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.484384
	0.671022	-3.813362	30505.945542			
HLA B*5801	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.353239
	0.539612	-3.813626	22554.779583			
HLA B*1801	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.516626
	0.702905	-3.813721	32856.891476			
HLA A*3201	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.527495
	0.713674	-3.813821	33689.548518			
HLA A*2902	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.435884
	0.621958	-3.813926	27282.494212			
HLA A*3002	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.462365
	0.648272	-3.814093	28997.804475			
HLA A*2602	1:78-869		LSAATSSTP	0.733359	0.025119	-4.572770
	0.758478	-3.814292	37391.231312			
HLA A*0219	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.436377
	0.621958	-3.814419	27313.506831			
HLA A*2301	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.494720
	0.680076	-3.814644	31240.636608			
HLA A*0250	1:78-869		LSAATSSTP	0.733359	0.025119	-4.573284
	0.758478	-3.814806	37435.557414			
HLA A*2402	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.511089
	0.696230	-3.814858	32440.589477			
HLA A*0201	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.202355
	0.387379	-3.814976	15935.095129			

HLA A*6901	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.385119
	0.570132	-3.814986	24272.736946			
HLA B*5101	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.502692
	0.687624	-3.815067	31819.377406			
HLA A*3002	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.522533
	0.707433	-3.815100	33306.812992			
HLA B*1502	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.481901
	0.666762	-3.815139	30332.002631			
HLA A*0202	1:91-999		YELNITSAT	0.787532	-0.429583	-4.173320
	0.357949	-3.815370	14904.579394			
HLA B*5801	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.353213
	0.537766	-3.815447	22553.437415			
HLA A*3101	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.402578
	0.587095	-3.815483	25268.401697			
HLA B*5101	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.416177
	0.600517	-3.815659	26072.134719			
HLA A*6801	1:134-142	9	WDQAYRKPI	0.842101	0.011357	-4.669242
	0.853458	-3.815784	46691.945572			
HLA B*1502	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.397005
	0.581216	-3.815788	24946.222634			
HLA A*0203	1:18-269		SGVATAAPK	0.424227	0.140104	-4.380284
	0.564331	-3.815953	24003.993979			
HLA A*0203	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.353727
	0.537766	-3.815961	22580.173790			
HLA B*5401	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.513779
	0.697746	-3.816033	32642.160623			
HLA A*0211	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.503671
	0.687624	-3.816047	31891.240524			
HLA A*2601	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.403226
	0.587095	-3.816131	25306.158871			
HLA A*0250	1:34-429		GTDGTGACQ	0.815488	-0.167073	-4.464689
	0.648415	-3.816274	29153.369554			

HLA B*1502	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.606976
	0.790540	-3.816436	40455.345924			
HLA B*4801	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.396199
	0.579719	-3.816480	24899.975545			
HLA B*7301	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.620680
	0.804086	-3.816595	41752.305838			
HLA B*1509	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.519584
	0.702905	-3.816679	33081.445276			
HLA B*3901	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.484662
	0.667964	-3.816697	30525.425745			
HLA A*0211	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.524770
	0.707999	-3.816771	33478.792708			
HLA B*5301	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.592402
	0.775271	-3.817131	39120.289824			
HLA A*0202	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.525221
	0.707999	-3.817222	33513.585153			
HLA B*5101	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.485334
	0.667964	-3.817369	30572.692104			
HLA A*3201	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.603875
	0.786460	-3.817415	40167.481180			
HLA B*1801	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.410296
	0.592876	-3.817420	25721.472688			
HLA B*0803	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.480473
	0.662917	-3.817555	30232.398126			
HLA B*2705	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.485545
	0.667964	-3.817581	30587.581267			
HLA A*2403	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.398936
	0.581216	-3.817720	25057.403736			
HLA A*3101	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.399049
	0.581216	-3.817832	25063.911354			
HLA B*4801	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.410918
	0.592876	-3.818043	25758.373966			

HLA B*4601	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.399305
	0.581216	-3.818089	25078.695348			
HLA A*3101	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.383037
	0.564800	-3.818237	24156.672172			
HLA B*4403	1:207-215	9	LPEAAGPTQ	1.054236	-0.218984	-4.653839
	0.835252	-3.818587	45064.934786			
HLA B*1502	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.507069
	0.688457	-3.818612	32141.694458			
HLA A*0203	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.396744
	0.578083	-3.818661	24931.246982			
HLA A*2603	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.609260
	0.790540	-3.818720	40668.637106			
HLA B*4601	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.396810
	0.578083	-3.818727	24935.023776			
HLA A*2601	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.388866
	0.570132	-3.818734	24483.087115			
HLA B*0801	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.203031
	0.384238	-3.818794	15959.942125			
HLA B*0802	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.489915
	0.671022	-3.818893	30896.919286			
HLA B*0803	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.438461
	0.619394	-3.819068	27444.887619			
HLA B*1503	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.398913
	0.579719	-3.819194	25056.048195			
HLA A*2601	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.385732
	0.566374	-3.819358	24307.033799			
HLA A*2501	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.490387
	0.671022	-3.819365	30930.534489			
HLA B*5701	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.385936
	0.566374	-3.819563	24318.476849			
HLA B*2705	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.467962
	0.648272	-3.819689	29373.898541			

HLA A*2601	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.384649
	0.564800	-3.819848	24246.488586			
HLA B*7301	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.543119
	0.723137	-3.819983	34923.620976			
HLA A*2601	1:18-269		SGVATAAPK	0.424227	0.140104	-4.384656
	0.564331	-3.820325	24246.882102			
HLA A*0202	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.488597
	0.667964	-3.820633	30803.290899			
HLA A*2301	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.518511
	0.697746	-3.820765	32999.758399			
HLA B*0801	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.400837
	0.579719	-3.821118	25167.310310			
HLA B*0801	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.382619
	0.561410	-3.821209	24133.421453			
HLA B*5101	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.501512
	0.680076	-3.821436	31733.080709			
HLA A*2403	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.414508
	0.592876	-3.821633	25972.183175			
HLA B*3501	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.408907
	0.587095	-3.821812	25639.366178			
HLA B*5401	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.535606
	0.713674	-3.821931	34324.610137			
HLA B*4001	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.392482
	0.570132	-3.822350	24687.779811			
HLA B*5401	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.563088
	0.740601	-3.822487	36566.849072			
HLA B*0803	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.493698
	0.671022	-3.822676	31167.204400			
HLA B*5701	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.415552
	0.592876	-3.822676	26034.643104			
HLA B*4001	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.362406
	0.539612	-3.822794	23035.957986			

HLA B*1503	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.257568
	0.434427	-3.823141	18095.373765			
HLA B*4402	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.436981
	0.613638	-3.823343	27351.508345			
HLA A*2403	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.401436
	0.578083	-3.823353	25202.053121			
HLA B*4601	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.410707
	0.587095	-3.823612	25745.835524			
HLA B*3801	1:49-579		AYNINISLP	0.584960	0.117828	-4.526811
	0.702788	-3.824024	33636.553537			
HLA A*0202	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.411323
	0.587095	-3.824227	25782.353312			
HLA A*0201	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.405486
	0.581216	-3.824270	25438.203354			
HLA B*7301	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.591749
	0.767355	-3.824394	39061.499116			
HLA A*2601	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.385821
	0.561410	-3.824411	24312.031250			
HLA B*7301	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.512090
	0.687624	-3.824465	32515.438690			
HLA B*5701	1:18-269		SGVATAAPK	0.424227	0.140104	-4.388991
	0.564331	-3.824660	24490.108013			
HLA A*0211	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.446718
	0.621958	-3.824760	27971.615327			
HLA A*2301	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.526750
	0.701666	-3.825085	33631.822650			
HLA A*0201	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.386691
	0.561410	-3.825280	24360.744383			
HLA B*3501	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.117021
	0.291433	-3.825588	13092.463300			
HLA B*3801	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.514127
	0.688457	-3.825670	32668.306478			

HLA A*0101	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.392069
	0.566374	-3.825695	24664.284763			
HLA A*2301	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.521981
	0.696230	-3.825751	33264.496148			
HLA B*1502	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.523713
	0.697746	-3.825967	33397.389383			
HLA A*1101	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.489006
	0.662917	-3.826089	30832.300326			
HLA A*8001	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.419052
	0.592876	-3.826177	26245.349542			
HLA B*3801	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.539915
	0.713674	-3.826240	34666.864954			
HLA B*3801	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.533543
	0.706847	-3.826696	34161.958859			
HLA A*0250	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.489760
	0.662917	-3.826843	30885.889427			
HLA A*3002	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.578815
	0.751912	-3.826903	37915.343233			
HLA B*1503	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.460960
	0.634040	-3.826920	28904.144862			
HLA A*6901	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.366664
	0.539612	-3.827051	23262.883438			
HLA B*1509	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.489981
	0.662917	-3.827064	30901.599810			
HLA A*1101	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.407119
	0.579719	-3.827401	25534.027798			
HLA A*2402	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.550640
	0.723137	-3.827503	35533.662059			
HLA A*2301	1:19-27	9	GVATAAPKT	1.007855	-0.294181	-4.541219
	0.713674	-3.827544	34771.108233			
HLA B*3801	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.507839
	0.680076	-3.827763	32198.778714			

HLA A*3201	1:11-199	AVVLLCCSG	0.891360	-0.444728	-4.274409	
	0.446632	-3.827777	18810.860663			
HLA A*1101	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.524056	
	0.696230	-3.827825	33423.778525			
HLA A*0203	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.212138
	0.384238	-3.827900	16298.135195			
HLA A*0201	1:18-269	SGVATAAPK	0.424227	0.140104	-4.392261	
	0.564331	-3.827931	24675.228536			
HLA A*0201	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.398135
	0.570132	-3.828002	25011.221146			
HLA B*1509	1:41-499	CQIQMSDPA	0.720301	-0.119784	-4.428822	
	0.600517	-3.828304	26842.410876			
HLA A*2501	1:41-499	CQIQMSDPA	0.720301	-0.119784	-4.428826	
	0.600517	-3.828309	26842.701307			
HLA B*4801	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.442251	
	0.613638	-3.828613	27685.423809			
HLA A*3002	1:53-619	NISLPSYYP	0.515820	0.118220	-4.462708	
	0.634040	-3.828668	29020.717259			
HLA A*0202	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-3.704273
	-0.124403	-3.828676	5061.430035			
HLA A*8001	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.442543	
	0.613638	-3.828904	27704.002149			
HLA A*0301	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.368600
	0.539612	-3.828987	23366.815004			
HLA B*3501	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.442756	
	0.613638	-3.829118	27717.644185			
HLA B*0802	1:53-619	NISLPSYYP	0.515820	0.118220	-4.463237	
	0.634040	-3.829197	29056.063511			
HLA B*1509	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.509345	
	0.680076	-3.829269	32310.629496			
HLA A*0201	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.394148
	0.564800	-3.829347	24782.654375			

HLA B*2705	1:53-619		NISLPSYYP	0.515820	0.118220	-4.463432
	0.634040	-3.829392	29069.113218			
HLA B*1509	1:53-619		NISLPSYYP	0.515820	0.118220	-4.463728
	0.634040	-3.829688	29088.934818			
HLA B*0803	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.532638
	0.702905	-3.829733	34090.880128			
HLA B*4501	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.537814
	0.707999	-3.829815	34499.605507			
HLA B*4601	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.396265
	0.566374	-3.829891	24903.747602			
HLA B*0801	1:18-269		SGVATAAPK	0.424227	0.140104	-4.394594
	0.564331	-3.830264	24808.141040			
HLA B*4501	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.423394
	0.592876	-3.830518	26509.052758			
HLA A*1101	1:120-128	9	AGGTHPTT	0.991249	-0.369291	-4.452528
	0.621958	-3.830570	28348.352441			
HLA A*3002	1:200-208	9	FFNPGELL	0.676947	-0.010185	-4.497340
	0.666762	-3.830577	31429.650448			
HLA B*5701	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.408668
	0.578083	-3.830585	25625.222056			
HLA B*1801	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.510685
	0.680076	-3.830608	32410.417518			
HLA A*0211	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.533940
	0.702905	-3.831034	34193.206439			
HLA B*1501	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.254852
	0.423714	-3.831138	17982.561462			
HLA B*0702	1:18-269		SGVATAAPK	0.424227	0.140104	-4.395670
	0.564331	-3.831340	24869.685110			
HLA B*3501	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.397989
	0.566374	-3.831615	25002.833461			
HLA A*3101	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.401765
	0.570132	-3.831632	25221.147995			

HLA A*0206	1:18-269	SGVATAAPK	0.424227	0.140104	-4.396004	
	0.564331	-3.831673	24888.797448			
HLA B*1502	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.511751	
	0.680076	-3.831675	32490.118246			
HLA B*4002	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.622367
	0.790540	-3.831827	41914.799720			
HLA A*2301	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.539341	
	0.707433	-3.831908	34621.134432			
HLA B*5101	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.402096
	0.570132	-3.831964	25240.393884			
HLA A*0301	1:26-349	KTYCEELKG	0.984658	-0.550231	-4.266575	
	0.434427	-3.832148	18474.618692			
HLA B*5101	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.451597
	0.619394	-3.832204	28287.686315			
HLA A*0202	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.555341
	0.723137	-3.832205	35920.410171			
HLA B*7301	1:90-989	PYELNITSA	1.095994	-0.320723	-4.607951	
	0.775271	-3.832680	40546.274417			
HLA B*5701	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.402923
	0.570132	-3.832791	25288.504479			
HLA B*1503	1:11-199	AVVLLCCSG	0.891360	-0.444728	-4.279545	
	0.446632	-3.832913	19034.638828			
HLA B*5801	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.352900
	0.519628	-3.833272	22537.215709			
HLA A*0211	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.529706	
	0.696230	-3.833476	33861.489373			
HLA B*5401	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.541832
	0.707999	-3.833833	34820.239057			
HLA A*6802	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.420995
	0.587095	-3.833900	26363.033728			
HLA A*2603	1:65-739	SLENYIAQT	1.098356	-0.294270	-4.638034	
	0.804086	-3.833948	43454.400358			

HLA A*3101	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.306592
	0.472542	-3.834050	20257.782878			
HLA A*8001	1:18-269		SGVATAAPK	0.424227	0.140104	-4.398396
	0.564331	-3.834065	25026.244837			
HLA B*0702	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.447763
	0.613638	-3.834125	28039.035333			
HLA B*4801	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.421315
	0.587095	-3.834220	26382.437334			
HLA B*7301	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.482521
	0.648272	-3.834249	30375.354073			
HLA A*2301	1:135-143	9	DQAYRK PIT	1.136670	-0.428671	-4.542562
	0.707999	-3.834563	34878.872568			
HLA A*2902	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.427901
	0.592876	-3.835025	26785.547121			
HLA B*3501	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.179499
	0.344471	-3.835028	15118.157670			
HLA B*4402	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.401518
	0.566374	-3.835144	25206.825483			
HLA A*2602	1:90-989		PYELNITSA	1.095994	-0.320723	-4.610578
	0.775271	-3.835307	40792.251784			
HLA A*1101	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.428591
	0.592876	-3.835715	26828.183630			
HLA B*5401	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.524194
	0.688457	-3.835737	33434.448545			
HLA B*0702	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.417004
	0.581216	-3.835787	26121.830692			
HLA B*4001	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.374036
	0.537766	-3.836270	23661.170691			
HLA B*1509	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.429165
	0.592876	-3.836289	26863.620564			
HLA B*1509	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.504266
	0.667964	-3.836302	31934.920013			

HLA B*3801	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.534135
	0.697746	-3.836389	34208.563347			
HLA B*0803	1:53-619		NISLPSYYP	0.515820	0.118220	-4.470506
	0.634040	-3.836466	29546.502710			
HLA B*4002	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.623018
	0.786460	-3.836559	41977.657780			
HLA B*2705	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.458517
	0.621958	-3.836559	28741.978538			
HLA B*5701	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.417833
	0.581216	-3.836617	26171.762976			
HLA B*0801	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.407039
	0.570132	-3.836907	25529.331597			
HLA A*2402	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.539964
	0.702905	-3.837058	34670.803599			
HLA B*4001	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.398548
	0.561410	-3.837138	25035.046683			
HLA B*1502	1:90-989		PYELNITSA	1.095994	-0.320723	-4.612422
	0.775271	-3.837151	40965.855174			
HLA A*2501	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.456585
	0.619394	-3.837192	28614.448772			
HLA A*3002	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.415350
	0.578083	-3.837267	26022.533291			
HLA B*1509	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.508382
	0.671022	-3.837360	32239.042179			
HLA A*2301	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.540272
	0.702905	-3.837366	34695.383350			
HLA B*0702	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.404058
	0.566374	-3.837684	25354.669152			
HLA A*2403	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.375622
	0.537766	-3.837856	23747.731550			
HLA B*1501	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.399385
	0.561410	-3.837975	25083.308653			

HLA A*0206	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.460027
	0.621958	-3.838069	28842.133294			
HLA B*1501	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.402902
	0.564800	-3.838102	25287.273237			
HLA A*3301	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.614760
	0.776623	-3.838137	41186.962364			
HLA B*4403	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.592409
	0.754093	-3.838316	39120.924738			
HLA B*1517	1:53-619		NISLPSYYP	0.515820	0.118220	-4.472637
	0.634040	-3.838597	29691.836856			
HLA A*2403	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.403543
	0.564800	-3.838743	25324.647597			
HLA B*1517	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.460702
	0.621958	-3.838744	28886.949474			
HLA B*5701	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.426016
	0.587095	-3.838921	26669.583585			
HLA A*6802	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.409156
	0.570132	-3.839024	25654.073244			
HLA A*0203	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.183559
	0.344471	-3.839088	15260.149223			
HLA B*1503	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.452810
	0.613638	-3.839171	28366.761789			
HLA A*2603	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.615796
	0.776623	-3.839173	41285.341925			
HLA A*3001	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.263082
	0.423714	-3.839368	18326.595711			
HLA A*2902	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.453073
	0.613638	-3.839435	28383.954633			
HLA B*4402	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.426815
	0.587095	-3.839720	26718.683754			
HLA A*3101	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.274223
	0.434427	-3.839796	18802.822972			

HLA B*1517	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.453550
	0.613638	-3.839911	28415.143228			
HLA B*4403	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.616724
	0.776623	-3.840101	41373.659158			
HLA A*2902	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.401727
	0.561410	-3.840317	25218.964991			
HLA B*4801	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.421818
	0.581216	-3.840601	26412.998398			
HLA A*1101	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.489631
	0.648272	-3.841358	30876.700886			
HLA A*3001	1:54-629		ISLPSYYPD	0.496117	-0.692209	-3.645550
	0.196092	-3.841643	4421.302296			-
HLA B*1517	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.412462
	0.570132	-3.842330	25850.089778			
HLA B*1801	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.490761
	0.648415	-3.842346	30957.151527			
HLA B*3501	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.435360
	0.592876	-3.842484	27249.600312			
HLA B*1509	1:18-269		SGVATAAPK	0.424227	0.140104	-4.406854
	0.564331	-3.842523	25518.423171			
HLA A*0250	1:49-579		AYNINISLP	0.584960	0.117828	-4.545347
	0.702788	-3.842559	35103.189454			
HLA B*5301	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.549484
	0.706847	-3.842637	35439.209095			
HLA A*3002	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.540481
	0.697746	-3.842735	34712.092510			
HLA A*3002	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.568247
	0.725355	-3.842892	37003.858221			
HLA B*1503	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.491311
	0.648272	-3.843038	30996.365435			
HLA A*2402	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.556746
	0.713674	-3.843072	36036.804956			

HLA B*1503	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.491701
	0.648415	-3.843286	31024.213964			
HLA A*1101	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.444077
	0.600517	-3.843559	27802.043975			
HLA A*2902	1:18-269		SGVATAAPK	0.424227	0.140104	-4.407921
	0.564331	-3.843590	25581.175738			
HLA A*0301	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.363410
	0.519628	-3.843782	23089.233081			
HLA B*1501	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.363588
	0.519628	-3.843960	23098.728207			
HLA B*1801	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.363715
	0.519628	-3.844087	23105.477117			
HLA B*0802	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.423892
	0.579719	-3.844173	26539.473339			
HLA A*6901	1:91-999		YELNITSAT	0.787532	-0.429583	-4.202134
	0.357949	-3.844184	15926.993722			
HLA A*3301	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.552294
	0.707999	-3.844295	35669.252250			
HLA A*3002	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.457946
	0.613638	-3.844307	28704.219070			
HLA A*0101	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.382083
	0.537766	-3.844317	24103.672321			
HLA B*4801	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.422494
	0.578083	-3.844412	26454.183195			
HLA A*2403	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.384064
	0.539612	-3.844452	24213.849042			
HLA B*5401	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.463878
	0.619394	-3.844484	29099.008108			
HLA B*4002	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.551382
	0.706847	-3.844535	35594.459694			
HLA B*3501	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.116082
	0.271476	-3.844606	13064.162422			

HLA A*2301	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.512797
	0.667964	-3.844833	32568.429203			
HLA A*0202	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.493106
	0.648272	-3.844833	31124.743348			
HLA B*1502	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.558511
	0.713674	-3.844837	36183.514076			
HLA B*4601	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.409814
	0.564800	-3.845014	25692.962685			
HLA B*5301	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.558701
	0.713674	-3.845027	36199.373203			
HLA B*2705	1:71-799		AQTRDKFLS	0.986232	-0.892858	-3.938536
	0.093374	-3.845161	8680.319057			
HLA A*2402	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.585828
	0.740601	-3.845227	38532.590276			
HLA B*5801	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.318309
	0.472542	-3.845767	20811.759270			
HLA A*0206	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.513777
	0.667964	-3.845812	32641.984033			
HLA B*4403	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.446438
	0.600517	-3.845921	27953.613645			
HLA A*2602	1:34-429		GTDGQACQ	0.815488	-0.167073	-4.494661
	0.648415	-3.846246	31236.411684			
HLA B*0802	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.427623
	0.581216	-3.846407	26768.453571			
HLA B*3801	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.554599
	0.707999	-3.846600	35859.055791			
HLA B*4501	1:90-989		PYELNITSA	1.095994	-0.320723	-4.621874
	0.775271	-3.846603	41867.208331			
HLA B*7301	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.517693
	0.671022	-3.846671	32937.690131			
HLA A*0212	1:18-269		SGVATAAPK	0.424227	0.140104	-4.411224
	0.564331	-3.846893	25776.495831			

HLA A*0212	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.434160
	0.587095	-3.847064	27174.374091			
HLA B*5401	1:49-579	AYNINISLP	0.584960	0.117828	-4.549937	
	0.702788	-3.847150	35476.230802			
HLA B*4501	1:93-101	9	LNITSATYQ	0.940219	-0.153759	-4.633697
	0.786460	-3.847237	43022.595967			
HLA B*4801	1:74-829	RDKFLSAAT	0.783794	-0.331173	-4.299978	
	0.452621	-3.847357	19951.617573			
HLA A*3001	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.231653
	0.384238	-3.847415	17047.187520			
HLA B*1801	1:75-839	DKFLSAATS	1.204544	-0.986239	-4.066038	
	0.218305	-3.847732	11642.266614			
HLA A*0203	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.417920
	0.570132	-3.847787	26177.002195			
HLA A*0212	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.426068
	0.578083	-3.847985	26672.757922			
HLA B*1501	1:26-349	KTYCEELKG	0.984658	-0.550231	-4.282514	
	0.434427	-3.848087	19165.245631			
HLA A*2602	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.600085
	0.751912	-3.848173	39818.498519			
HLA B*2705	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.461869	
	0.613638	-3.848231	28964.722754			
HLA B*3801	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.555696	
	0.707433	-3.848263	35949.765300			
HLA A*3201	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.528449	
	0.680076	-3.848373	33763.626071			
HLA A*2602	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.573750
	0.725355	-3.848395	37475.678297			
HLA A*0206	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.544752	
	0.696230	-3.848522	35055.176515			
HLA A*0216	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.462358	
	0.613638	-3.848720	28997.333854			

HLA A*2902	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.426909
	0.578083	-3.848826	26724.466184			
HLA A*0206	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.536590
	0.687624	-3.848966	34402.503474			
HLA A*2902	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.419116
	0.570132	-3.848983	26249.183401			
HLA B*4402	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.429009
	0.579719	-3.849291	26854.030548			
HLA B*7301	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.547362
	0.697746	-3.849616	35266.506137			
HLA A*2902	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.436906
	0.587095	-3.849811	27346.773759			
HLA A*2601	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.389468
	0.539612	-3.849855	24517.018007			
HLA A*0212	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.414664
	0.564800	-3.849863	25981.458269			
HLA A*6801	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.556974
	0.706847	-3.850127	36055.720565			
HLA A*2402	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.558433
	0.707999	-3.850434	36177.054942			
HLA A*0206	1:38-46	9	GQACQIQMS	0.965607	-1.010502	-3.805574
	0.044895	-3.850468	6391.070868			-
HLA B*4403	1:111-119	9	AVVLKVYQN	1.224563	-0.434023	-4.641142
	0.790540	-3.850602	43766.531486			
HLA B*0802	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.473159
	0.621958	-3.851201	29727.518037			
HLA B*4402	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.432444
	0.581216	-3.851228	27067.268166			
HLA B*4403	1:65-73	9	SLENYIAQT	1.098356	-0.294270	-4.655418
	0.804086	-3.851332	45229.064061			
HLA B*0801	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.298138
	0.446632	-3.851507	19867.282400			

HLA A*2402	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.540657
	0.688457	-3.852200	34726.179510			
HLA A*8001	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.418622
	0.566374	-3.852249	26219.379248			
HLA A*2301	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.540908
	0.688457	-3.852451	34746.286861			
HLA A*6801	1:117-125	9	YQNAGGTHP	0.729126	0.047497	-4.629298
	0.776623	-3.852676	42589.091517			
HLA B*4403	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.515774
	0.662917	-3.852856	32792.430763			
HLA B*1501	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.211146
	0.357949	-3.853197	16260.969429			
HLA B*0803	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.432919
	0.579719	-3.853200	27096.863380			
HLA B*5101	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.487241
	0.634040	-3.853202	30707.288155			
HLA A*0212	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.420049
	0.566374	-3.853675	26305.620038			
HLA B*4002	1:90-98	9	PYELNITSA	1.095994	-0.320723	-4.628953
	0.775271	-3.853682	42555.235848			
HLA B*5301	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.561123
	0.707433	-3.853690	36401.842794			
HLA A*0201	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.393572
	0.539612	-3.853960	24749.828638			
HLA B*3801	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.550238
	0.696230	-3.854008	35500.805387			
HLA A*2402	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.579367
	0.725355	-3.854012	37963.576570			
HLA A*0250	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.550304
	0.696230	-3.854074	35506.183346			
HLA A*3301	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.612753
	0.758478	-3.854275	40997.115619			

HLA A*1101	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.275400
	0.421102	-3.854298	18853.854412			
HLA A*2501	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.434197
	0.579719	-3.854478	27176.726358			
HLA B*0801	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.421047
	0.566374	-3.854673	26366.171579			
HLA B*7301	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.595485
	0.740601	-3.854884	39398.944566			
HLA A*3002	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.455472
	0.600517	-3.854954	28541.167098			
HLA A*3001	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.276157
	0.421102	-3.855055	18886.726153			
HLA B*3501	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.416602
	0.561410	-3.855192	26097.676794			
HLA A*1101	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.433314
	0.578083	-3.855231	27121.501867			
HLA A*2403	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.442423
	0.587095	-3.855327	27696.359549			
HLA B*3801	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.543006
	0.687624	-3.855382	34914.553373			
HLA A*0201	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.141573
	0.286028	-3.855546	13853.945775			
HLA B*5301	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.596572
	0.740601	-3.855972	39497.753898			
HLA B*0803	1:18-269		SGVATAAPK	0.424227	0.140104	-4.420657
	0.564331	-3.856326	26342.504289			
HLA A*2403	1:18-269		SGVATAAPK	0.424227	0.140104	-4.420847
	0.564331	-3.856517	26354.050131			
HLA A*6801	1:135-143	9	DQAYRKPIIT	1.136670	-0.428671	-4.564535
	0.707999	-3.856536	36688.911066			
HLA A*3002	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.527596
	0.671022	-3.856574	33697.386469			

HLA B*4002	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.610723
	0.754093	-3.856630	40805.936336			
HLA B*3801	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.505133
	0.648415	-3.856718	31998.733741			
HLA B*4801	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.418141
	0.561410	-3.856731	26190.317360			
HLA A*0202	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.554686
	0.697746	-3.856940	35866.234270			
HLA B*5701	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.421834
	0.564800	-3.857034	26413.998657			
HLA A*0202	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.544715
	0.687624	-3.857090	35052.142333			
HLA A*0219	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.215150
	0.357949	-3.857200	16411.563436			
HLA A*6801	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.524009
	0.666762	-3.857246	33420.162342			
HLA B*4402	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.435405
	0.578083	-3.857322	27252.401385			
HLA B*3501	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.427487
	0.570132	-3.857355	26760.055655			
HLA B*4001	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.423782
	0.566374	-3.857408	26532.726143			
HLA A*0219	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.471296
	0.613638	-3.857657	29600.258902			
HLA A*0219	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.419165
	0.561410	-3.857755	26252.165679			
HLA A*0212	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.419245
	0.561410	-3.857835	26256.994848			
HLA B*5401	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.545527
	0.687624	-3.857903	35117.815136			
HLA A*3201	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.520992
	0.662917	-3.858075	33188.820362			

HLA B*4402	1:18-269		SGVATAAPK	0.424227	0.140104	-4.422419
	0.564331	-3.858089	26449.603937			
HLA A*2501	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.451172
	0.592876	-3.858296	28260.000854			
HLA B*0803	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.526454
	0.667964	-3.858490	33608.905463			
HLA B*3501	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.396662
	0.537766	-3.858896	24926.526794			
HLA A*8001	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.446107
	0.587095	-3.859011	27932.298916			
HLA B*4002	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.584487
	0.725355	-3.859132	38413.744959			
HLA B*1502	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.130615
	0.271476	-3.859139	13508.759982			
HLA A*8001	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.437557
	0.578083	-3.859474	27387.784694			
HLA A*0101	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.399258
	0.539612	-3.859646	25075.982035			
HLA B*5101	1:34-429		GTDGTGQACQ	0.815488	-0.167073	-4.508091
	0.648415	-3.859676	32217.422635			
HLA A*2501	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.481894
	0.621958	-3.859936	30331.510357			
HLA B*0702	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.447281
	0.587095	-3.860186	28007.956515			
HLA B*4403	1:95-103	9	ITSATYQSA	0.951011	-0.171324	-4.639996
	0.779687	-3.860308	43651.139096			
HLA B*4801	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.426719
	0.566374	-3.860345	26712.758061			
HLA B*4601	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.421851
	0.561410	-3.860440	26414.998953			
HLA B*0801	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.398349
	0.537766	-3.860583	25023.537199			

HLA B*1501	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.018625
	0.157927	-3.860698	10438.183643			
HLA A*6802	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.245026
	0.384238	-3.860788	17580.288877			
HLA B*5701	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.422363
	0.561410	-3.860953	26446.170014			
HLA B*0803	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.461540
	0.600517	-3.861023	28942.793628			
HLA B*5401	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.448160
	0.587095	-3.861065	28064.682340			
HLA A*0201	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.399239
	0.537766	-3.861473	25074.896793			
HLA B*3901	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.483492
	0.621958	-3.861534	30443.297121			
HLA A*0202	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.019621
	0.157927	-3.861695	10462.154157			
HLA B*0802	1:18-269		SGVATAAPK	0.424227	0.140104	-4.426122
	0.564331	-3.861791	26676.076952			
HLA B*3801	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.528581
	0.666762	-3.861818	33773.856439			
HLA B*1517	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.462386
	0.600517	-3.861869	28999.216384			
HLA A*0301	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.285916
	0.423714	-3.862203	19315.966523			
HLA A*3201	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.560172
	0.697746	-3.862426	36322.173480			
HLA B*1503	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.443682
	0.581216	-3.862466	27776.787250			
HLA B*5301	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.529351
	0.666762	-3.862589	33833.839446			
HLA A*2902	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.207289
	0.344471	-3.862817	16117.162288			

HLA A*2603	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.621406
	0.758478	-3.862929	41822.159690			
HLA A*0212	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.444300
	0.581216	-3.863084	27816.336215			
HLA B*1502	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.482538
	0.619394	-3.863144	30376.504386			
HLA A*0219	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.450289
	0.587095	-3.863194	28202.575094			
HLA A*3201	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.566076
	0.702788	-3.863288	36819.347190			
HLA B*4402	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.433502
	0.570132	-3.863369	27133.242353			
HLA B*4801	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.433795
	0.570132	-3.863663	27151.597037			
HLA B*1503	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-3.955734
	0.091985	-3.863749	9030.960001			
HLA A*2602	1:135-143	9	DQAYRKPIT	1.136670	-0.428671	-4.571816
	0.707999	-3.863817	37309.194778			
HLA A*3101	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.383768
	0.519628	-3.864140	24197.349392			
HLA A*0203	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.429193
	0.564800	-3.864392	26865.364571			
HLA B*7301	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.498514
	0.634040	-3.864474	31514.780995			
HLA A*2501	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.431037
	0.566374	-3.864663	26979.698008			
HLA A*3002	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.484589
	0.619394	-3.865195	30520.306860			
HLA A*2301	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.528303
	0.662917	-3.865386	33752.303206			
HLA B*0802	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.465939
	0.600517	-3.865421	29237.395588			

HLA B*1517	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.289375
	0.423714	-3.865661	19470.400547			
HLA A*3201	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.613895
	0.748062	-3.865833	41105.047311			
HLA B*7301	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.567603
	0.701666	-3.865938	36949.047679			
HLA A*2902	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.432315
	0.566374	-3.865941	27059.215663			
HLA B*5101	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.487911
	0.621958	-3.865953	30754.669734			
HLA B*4403	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.572854
	0.706847	-3.866007	37398.514189			
HLA B*5401	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.562270
	0.696230	-3.866040	36498.071569			
HLA A*1101	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.430856
	0.564800	-3.866056	26968.461646			
HLA B*4002	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.624606
	0.758478	-3.866129	42131.454698			
HLA B*1509	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.432820
	0.566374	-3.866447	27090.707256			
HLA B*7301	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.569577
	0.702788	-3.866789	37117.337581			
HLA A*0212	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.436995
	0.570132	-3.866863	27352.396171			
HLA A*6801	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.446661
	0.579719	-3.866942	27967.983803			
HLA B*1801	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.406725
	0.539612	-3.867112	25510.831449			
HLA B*7301	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.555837
	0.688457	-3.867380	35961.436249			
HLA B*0803	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.481156
	0.613638	-3.867518	30280.029800			

HLA A*3301	1:49-579	AYNINISLP	0.584960	0.117828	-4.570467	
	0.702788	-3.867680	37193.519112			
HLA B*4501	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.610394
	0.742712	-3.867682	40775.042254			
HLA A*0250	1:88-969	EAPYELNIT	1.024679	-0.321774	-4.570608	
	0.702905	-3.867703	37205.593841			
HLA B*1801	1:18-269	SGVATAAPK	0.424227	0.140104	-4.432052	
	0.564331	-3.867721	27042.825246			
HLA A*0216	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.437926
	0.570132	-3.867793	27411.056462			
HLA B*0702	1:89-979	APYELNITS	1.361001	-1.037258	-4.191575	
	0.323743	-3.867833	15544.445096			
HLA A*2402	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.516161
	0.648272	-3.867889	32821.715395			
HLA B*5401	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.438048
	0.570132	-3.867915	27418.768667			
HLA A*0206	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.097370
	0.229395	-3.867975	12513.254359			
HLA B*4601	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.406006
	0.537766	-3.868240	25468.635090			
HLA A*0211	1:17-259	CSGVATAAP	0.698375	-0.030411	-4.536355	
	0.667964	-3.868391	34383.897135			
HLA B*4402	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.429888
	0.561410	-3.868478	26908.419273			
HLA B*1502	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.593957
	0.725355	-3.868603	39260.644320			
HLA B*0801	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.292474
	0.423714	-3.868760	19609.831262			
HLA B*0802	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.435400
	0.566374	-3.869026	27252.106522			
HLA A*3201	1:36-449	DTGQACQIQ	0.956574	-0.260344	-4.565470	
	0.696230	-3.869240	36767.992382			

HLA A*6901	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.388939
	0.519628	-3.869311	24487.193434			
HLA A*2402	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.571092
	0.701666	-3.869426	37247.080250			
HLA A*3001	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.270072
	0.400567	-3.869504	18623.938000			
HLA B*4403	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.617607
	0.748062	-3.869546	41457.903729			
HLA B*4501	1:153-161	9	DPLPVVFP	0.780193	-0.026100	-4.624169
	0.754093	-3.870077	42089.081691			
HLA A*0203	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.431493
	0.561410	-3.870083	27008.028564			
HLA B*4501	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.610690
	0.740601	-3.870090	40802.845874			
HLA A*2603	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.622210
	0.751912	-3.870298	41899.609927			
HLA B*0802	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.484039
	0.613638	-3.870401	30481.695219			
HLA B*1503	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.390076
	0.519628	-3.870448	24551.394381			
HLA A*0202	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.566882
	0.696230	-3.870652	36887.732303			
HLA A*0301	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.343422
	0.472542	-3.870880	22050.702957			
HLA B*7301	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.613660
	0.742712	-3.870948	41082.815950			
HLA A*1101	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.484878
	0.613638	-3.871239	30540.622330			
HLA A*6801	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.449325
	0.578083	-3.871243	28140.089568			
HLA A*2902	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.410897
	0.539612	-3.871285	25757.119847			

HLA A*0201	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.390988
	0.519628	-3.871360	24602.982790			
HLA A*2601	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.391260
	0.519628	-3.871632	24618.427167			
HLA B*0702	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.409755
	0.537766	-3.871989	25689.488018			
HLA A*2301	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.543014
	0.671022	-3.871991	34915.120030			
HLA A*0250	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.580135
	0.707999	-3.872136	38030.794857			
HLA A*2902	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.256414
	0.384238	-3.872176	18047.371609			
HLA B*1509	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.494170
	0.621958	-3.872212	31201.113668			
HLA B*3501	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.344776
	0.472542	-3.872234	22119.522236			
HLA B*0801	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.437082
	0.564800	-3.872282	27357.871736			
HLA A*2402	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.273283
	0.400567	-3.872716	18762.178489			
HLA A*0202	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.434195
	0.561410	-3.872785	27176.579336			
HLA A*2402	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.535869
	0.662917	-3.872951	34345.413980			
HLA A*8001	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.434629
	0.561410	-3.873219	27203.792073			
HLA A*0219	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.439676
	0.566374	-3.873302	27521.756021			
HLA B*3801	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.576254
	0.702905	-3.873349	37692.422729			
HLA A*1101	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.434909
	0.561410	-3.873499	27221.310882			

HLA A*2402	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.571435
	0.697746	-3.873689	37276.511247			
HLA A*3101	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.326384
	0.452621	-3.873763	21202.348747			
HLA A*2902	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.294976
	0.421102	-3.873874	19723.140034			
HLA B*1502	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.581446
	0.707433	-3.874013	38145.772562			
HLA B*1501	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.346716
	0.472542	-3.874174	22218.586007			
HLA A*2501	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.487951
	0.613638	-3.874313	30757.498314			
HLA A*0101	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.393979
	0.519628	-3.874351	24773.003114			
HLA A*0212	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.394190
	0.519628	-3.874562	24785.067778			
HLA B*1503	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.347151
	0.472542	-3.874609	22240.834154			
HLA B*0801	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.232597
	0.357949	-3.874648	17084.301667			
HLA A*0219	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.438997
	0.564331	-3.874667	27478.760532			
HLA B*7301	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.454485
	0.579719	-3.874766	28476.390806			
HLA A*8001	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.445176
	0.570132	-3.875044	27872.523155			
HLA A*0206	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-3.967444
	0.092119	-3.875325	9277.773205			
HLA A*3001	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.307424
	0.432006	-3.875417	20296.615745			
HLA B*4501	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.578340
	0.702788	-3.875553	37873.932068			

HLA B*4801	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.440618
	0.564800	-3.875818	27581.525577			
HLA A*2402	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.583676
	0.707433	-3.876243	38342.115960			
HLA A*2301	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.524955
	0.648272	-3.876683	33493.103974			
HLA B*1801	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.498843
	0.621958	-3.876885	31538.658842			
HLA A*6801	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.349470
	0.472542	-3.876928	22359.908054			
HLA B*0802	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.469815
	0.592876	-3.876940	29499.546131			
HLA A*2603	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.600177
	0.723137	-3.877040	39826.900538			
HLA A*0219	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.447441
	0.570132	-3.877309	28018.261767			
HLA A*3101	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.278927
	0.401614	-3.877313	19007.575585			
HLA B*5701	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.415133
	0.537766	-3.877367	26009.584844			
HLA B*0803	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.525848
	0.648272	-3.877576	33562.028508			
HLA B*1502	1:18-269		SGVATAAPK	0.424227	0.140104	-4.441920
	0.564331	-3.877589	27664.313576			
HLA B*7301	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.573926
	0.696230	-3.877695	37490.886827			
HLA B*5101	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.457553
	0.579719	-3.877835	28678.297912			
HLA B*4002	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.645745
	0.767355	-3.878390	44232.834567			
HLA A*3002	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.471326
	0.592876	-3.878450	29602.340719			

HLA A*0216	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.443348
	0.564800	-3.878548	27755.457198			
HLA B*5301	1:16-249	CCSGVATAA	0.892838	-0.221816	-4.549611	
	0.671022	-3.878589	35449.563606			
HLA A*3201	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.601932
	0.723137	-3.878795	39988.174147			
HLA A*2603	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.559049	
	0.680076	-3.878972	36228.368330			
HLA B*2705	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.466075
	0.587095	-3.878980	29246.570950			
HLA B*2705	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.460222
	0.581216	-3.879006	28855.086920			
HLA A*2603	1:90-989	PYELNITSA	1.095994	-0.320723	-4.654334	
	0.775271	-3.879064	45116.405176			
HLA B*4501	1:78-869	LSAATSSTP	0.733359	0.025119	-4.637578	
	0.758478	-3.879100	43408.818085			
HLA A*3301	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.627236
	0.748062	-3.879174	42387.278004			
HLA A*2403	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.446107
	0.566374	-3.879733	27932.298916			
HLA B*2705	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.446588
	0.566374	-3.880215	27963.293782			
HLA A*3301	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.622950
	0.742712	-3.880238	41971.072557			
HLA A*3201	1:17-259	CSGVATAAP	0.698375	-0.030411	-4.548471	
	0.667964	-3.880507	35356.673090			
HLA A*3201	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.528881
	0.648272	-3.880609	33797.251779			
HLA A*0206	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.447091
	0.566374	-3.880717	27995.686089			
HLA B*3901	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.494396	
	0.613638	-3.880757	31217.322155			

HLA A*0211	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.304665
	0.423714	-3.880951	20168.116175			
HLA A*0202	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.503098
	0.621958	-3.881140	31849.171446			
HLA A*6801	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.211762
	0.330347	-3.881415	16284.033922			
HLA B*5401	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.459513
	0.578083	-3.881430	28807.982358			
HLA B*5301	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.584226
	0.702788	-3.881438	38390.684519			
HLA B*5301	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.569901
	0.688457	-3.881444	37145.058422			
HLA A*0219	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.459572
	0.578083	-3.881489	28811.878821			
HLA A*2902	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.419508
	0.537766	-3.881742	26272.908981			
HLA B*4501	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.569527
	0.687624	-3.881903	37113.121006			
HLA B*1509	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.463469
	0.581216	-3.882253	29071.629497			
HLA A*1101	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.316732
	0.434427	-3.882305	20736.348797			
HLA B*5101	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.460518
	0.578083	-3.882436	28874.762581			
HLA B*2705	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.460591
	0.578083	-3.882509	28879.605474			
HLA A*3001	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.174297
	0.291433	-3.882864	14938.160130			
HLA B*4801	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.403003
	0.519628	-3.883375	25293.156379			
HLA B*3901	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.461684
	0.578083	-3.883601	28952.346420			

HLA A*6801	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.551728
	0.667964	-3.883763	35622.777579			
HLA B*4501	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.546761
	0.662917	-3.883844	35217.698243			
HLA B*0801	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.423516
	0.539612	-3.883904	26516.511181			
HLA A*3002	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.546961
	0.662917	-3.884043	35233.896494			
HLA A*3301	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.609513
	0.725355	-3.884159	40692.405433			
HLA A*3301	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.607295
	0.723137	-3.884159	40485.121692			
HLA B*0802	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.462295
	0.578083	-3.884212	28993.098610			
HLA B*1502	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.580547
	0.696230	-3.884316	38066.816823			
HLA A*3301	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.636246
	0.751912	-3.884334	43275.869574			
HLA B*3801	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.503890
	0.619394	-3.884496	31907.289672			
HLA B*4501	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.652006
	0.767355	-3.884652	44875.174320			
HLA A*0206	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.455028
	0.570132	-3.884895	28511.999552			
HLA B*5401	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.565101
	0.680076	-3.885025	36736.776651			
HLA B*1517	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.423046
	0.537766	-3.885281	26487.836419			
HLA A*1101	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.472534
	0.587095	-3.885438	29684.769997			
HLA B*4002	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.588258
	0.702788	-3.885470	38748.738842			

HLA A*8001	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.405108
	0.519628	-3.885480	25416.056525			
HLA A*0216	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.446988
	0.561410	-3.885577	27989.022925			
HLA A*2403	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.446995
	0.561410	-3.885585	27989.477182			
HLA B*4501	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.599439
	0.713674	-3.885765	39759.303805			
HLA B*1501	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.425445
	0.539612	-3.885833	26634.546703			
HLA A*3002	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.287472
	0.401614	-3.885858	19385.267716			
HLA B*3801	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.556934
	0.671022	-3.885912	36052.404741			
HLA B*1503	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.423878
	0.537766	-3.886112	26538.611899			
HLA B*5301	1:135-143	9	DQAYRKPIT	1.136670	-0.428671	-4.594190
	0.707999	-3.886191	39281.677129			
HLA A*0216	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.464543
	0.578083	-3.886460	29143.592771			
HLA B*5701	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.426082
	0.539612	-3.886470	26673.623716			
HLA B*4002	1:149-157	9	QADTDLPV	0.679726	0.062986	-4.629186
	0.742712	-3.886473	42578.033644			
HLA A*0216	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.473593
	0.587095	-3.886498	29757.285107			
HLA B*5401	1:53-619		NISLPSYYP	0.515820	0.118220	-4.520595
	0.634040	-3.886555	33158.490644			
HLA B*4601	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.406212
	0.519628	-3.886585	25480.762836			
HLA B*4001	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.451442
	0.564800	-3.886642	28277.587924			

HLA A*2501	1:18-269		SGVATAAPK	0.424227	0.140104	-4.451008
	0.564331	-3.886677	28249.301037			
HLA B*5401	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.448245
	0.561410	-3.886834	28070.148638			
HLA B*4601	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.426806
	0.539612	-3.887193	26718.105580			
HLA B*7301	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.555172
	0.667964	-3.887208	35906.421464			
HLA A*0211	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.453785
	0.566374	-3.887411	28430.519664			
HLA A*2402	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.555407
	0.667964	-3.887443	35925.851695			
HLA A*6802	1:91-999		YELNITSAT	0.787532	-0.429583	-4.245510
	0.357949	-3.887561	17599.891925			
HLA B*3901	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.467318
	0.579719	-3.887599	29330.389584			
HLA A*3201	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.590743
	0.702905	-3.887838	38971.159477			
HLA B*4402	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.340850
	0.452621	-3.888229	21920.464508			
HLA B*0801	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.360910
	0.472542	-3.888367	22956.710411			
HLA A*2301	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.488905
	0.600517	-3.888388	30825.128789			
HLA B*4801	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.426235
	0.537766	-3.888469	26683.004953			
HLA A*6801	1:90-989		PYELNITSA	1.095994	-0.320723	-4.663815
	0.775271	-3.888544	46112.074442			
HLA A*2602	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.489137
	0.600517	-3.888620	30841.642503			
HLA A*8001	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.426632
	0.537766	-3.888866	26707.411613			

HLA B*5401	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.551855
	0.662917	-3.888937	35633.185724			
HLA A*0219	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.454140
	0.564800	-3.889339	28453.753853			
HLA A*0212	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.429150
	0.539612	-3.889538	26862.748603			
HLA A*0203	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.409283
	0.519628	-3.889655	25661.568767			
HLA B*3801	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.482660
	0.592876	-3.889784	30385.050931			
HLA A*0216	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.456412
	0.566374	-3.890038	28602.995791			
HLA B*5401	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.483196
	0.592876	-3.890320	30422.552639			
HLA B*5301	1:53-619		NISLPSYYP	0.515820	0.118220	-4.524556
	0.634040	-3.890516	33462.315157			
HLA A*2602	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.558548
	0.667964	-3.890584	36186.646193			
HLA B*0801	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.410275
	0.519628	-3.890647	25720.220365			
HLA A*0250	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.588504
	0.697746	-3.890758	38770.755865			
HLA A*3002	1:18-269		SGVATAAPK	0.424227	0.140104	-4.455178
	0.564331	-3.890847	28521.873053			
HLA A*3301	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.594164
	0.702905	-3.891259	39279.339594			
HLA A*3201	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.491830
	0.600517	-3.891313	31033.446403			
HLA B*7301	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.558116
	0.666762	-3.891354	36150.643218			
HLA A*0216	1:91-999		YELNITSAT	0.787532	-0.429583	-4.249427
	0.357949	-3.891477	17759.330622			

HLA B*3901	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.472912
	0.581216	-3.891696	29710.636462			
HLA A*3101	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.315654
	0.423714	-3.891940	20684.921435			
HLA A*3201	1:135-143	9	DQAYRK PIT	1.136670	-0.428671	-4.600108
	0.707999	-3.892109	39820.652714			
HLA A*2602	1:49-579		AYNINISLP	0.584960	0.117828	-4.594911
	0.702788	-3.892124	39346.971758			
HLA B*3801	1:18-269		SGVATAAPK	0.424227	0.140104	-4.457006
	0.564331	-3.892675	28642.171571			
HLA B*1517	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.473983
	0.581216	-3.892767	29784.020390			
HLA A*3201	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.514857
	0.621958	-3.892899	32723.316368			
HLA B*3801	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.556077
	0.662917	-3.893159	35981.285558			
HLA B*7301	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.596077
	0.702905	-3.893171	39452.693463			
HLA B*4403	1:90-989		PYELNITSA	1.095994	-0.320723	-4.668497
	0.775271	-3.893226	46611.940548			
HLA B*5101	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.507017
	0.613638	-3.893379	32137.869259			
HLA B*0803	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.486335
	0.592876	-3.893459	30643.231573			
HLA A*2603	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.541851
	0.648272	-3.893578	34821.746078			
HLA B*0702	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.413489
	0.519628	-3.893861	25911.274828			
HLA A*0250	1:186-194	9	NYQNF AVTN	1.119422	-0.431798	-4.581500
	0.687624	-3.893876	38150.519239			
HLA A*2501	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.472019
	0.578083	-3.893936	29649.621325			

HLA A*6901	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.366497
	0.472542	-3.893955	23253.949831			
HLA B*2705	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.464198
	0.570132	-3.894065	29120.425434			
HLA B*5301	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.591946
	0.697746	-3.894200	39079.253894			
HLA B*5801	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.341216
	0.446632	-3.894584	21938.971933			
HLA B*1517	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.487476
	0.592876	-3.894601	30723.904952			
HLA B*0702	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.456191
	0.561410	-3.894780	28588.454019			
HLA B*4403	1:78-86	9	LSAATSSTP	0.733359	0.025119	-4.653291
	0.758478	-3.894813	45008.166034			
HLA B*4403	1:135-143	9	DQAYRKIPIT	1.136670	-0.428671	-4.602855
	0.707999	-3.894856	40073.282904			
HLA B*4801	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.434667
	0.539612	-3.895055	27206.146887			
HLA B*1502	1:49-57	9	AYNINISLP	0.584960	0.117828	-4.597926
	0.702788	-3.895138	39621.024659			
HLA B*1509	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.482467
	0.587095	-3.895372	30371.574780			
HLA A*3201	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.620810
	0.725355	-3.895455	41764.730831			
HLA A*2603	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.462170
	0.566374	-3.895796	28984.786781			
HLA A*2501	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.433624
	0.537766	-3.895858	27140.876394			
HLA A*2603	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.563896
	0.667964	-3.895931	36634.963407			
HLA B*5801	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.187374
	0.291433	-3.895941	15394.810383			

HLA B*0803	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.518266
	0.621958	-3.896308	32981.197017			
HLA B*5101	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.489335
	0.592876	-3.896459	30855.661077			
HLA A*0301	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.343143
	0.446632	-3.896511	22036.511795			
HLA A*3101	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.434324
	0.537766	-3.896558	27184.666764			
HLA B*0803	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.477933
	0.581216	-3.896716	30056.112306			
HLA B*3801	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.564770
	0.667964	-3.896805	36708.764729			
HLA A*2301	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.545222
	0.648415	-3.896807	35093.125965			
HLA B*1509	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.475179
	0.578083	-3.897097	29866.147691			
HLA A*6901	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.331600
	0.434427	-3.897173	21458.523220			
HLA A*3201	1:53-619		NISLPSYYP	0.515820	0.118220	-4.531285
	0.634040	-3.897245	33984.815009			
HLA B*4501	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.169561
	0.271476	-3.898084	14776.124741			
HLA A*2902	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.462999
	0.564800	-3.898199	29040.191649			
HLA A*3301	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.546620
	0.648272	-3.898348	35206.268667			
HLA B*1509	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.478205
	0.579719	-3.898487	30074.979853			
HLA A*0219	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.285980
	0.387379	-3.898601	19318.788155			
HLA B*4403	1:161-169	9	IVQGELSKQ	0.821593	-0.054238	-4.666246
	0.767355	-3.898892	46370.990986			

HLA B*3501	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.463700
	0.564800	-3.898899	29087.046464			
HLA A*2603	1:202-210	9	NPCELLPEA	1.188654	-0.463299	-4.624270
	0.725355	-3.898916	42098.873813			
HLA B*2705	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.460464
	0.561410	-3.899054	28871.169991			
HLA B*4002	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.639944
	0.740601	-3.899343	43645.944153			
HLA B*1801	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.480747
	0.581216	-3.899531	30251.539992			
HLA B*1502	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.548081
	0.648272	-3.899809	35324.935580			
HLA B*0702	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.470034
	0.570132	-3.899901	29514.391668			
HLA B*3801	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.548500
	0.648272	-3.900227	35358.968473			
HLA B*1502	1:53-619		NISLPSYYP	0.515820	0.118220	-4.534332
	0.634040	-3.900292	34224.112301			
HLA A*3002	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.466707
	0.566374	-3.900333	29289.163304			
HLA B*4501	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.623509
	0.723137	-3.900373	42025.147368			
HLA A*2602	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.608094
	0.707433	-3.900661	40559.657027			
HLA B*4403	1:202-210	9	NPCELLPEA	1.188654	-0.463299	-4.626087
	0.725355	-3.900732	42275.293371			
HLA A*6802	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.440435
	0.539612	-3.900823	27569.889419			
HLA B*0702	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.478960
	0.578083	-3.900877	30127.252668			
HLA A*1101	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.471232
	0.570132	-3.901100	29595.935597			

HLA B*4402	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.373825
	0.472542	-3.901283	23649.653107			
HLA A*0212	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.325132
	0.423714	-3.901418	21141.300449			
HLA B*4402	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.439263
	0.537766	-3.901497	27495.563914			
HLA B*0802	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.488625
	0.587095	-3.901530	30805.290672			
HLA B*5801	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.325533
	0.423714	-3.901820	21160.867125			
HLA A*2603	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.603990
	0.701666	-3.902324	40178.130371			
HLA A*3001	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.232715
	0.330347	-3.902367	17088.923501			
HLA B*4403	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.645146
	0.742712	-3.902433	44171.856480			
HLA B*4402	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.442145
	0.539612	-3.902533	27678.684751			
HLA A*6901	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.349219
	0.446632	-3.902587	22346.968584			
HLA B*1801	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.489892
	0.587095	-3.902796	30895.247842			
HLA A*2501	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.473243
	0.570132	-3.903111	29733.308214			
HLA A*3101	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.442785
	0.539612	-3.903172	27719.443636			
HLA A*6801	1:149-157	9	QADTDPLPV	0.679726	0.062986	-4.646194
	0.742712	-3.903481	44278.563482			
HLA A*3201	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.551942
	0.648415	-3.903527	35640.318986			
HLA A*0202	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.287775
	0.384238	-3.903537	19398.800945			

HLA B*4002	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.592141
	0.688457	-3.903684	39096.805232			
HLA A*8001	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.468486
	0.564800	-3.903685	29409.356752			
HLA A*2402	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.574863
	0.671022	-3.903841	37571.900026			
HLA A*6901	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.356645
	0.452621	-3.904024	22732.402683			
HLA B*5701	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.423784
	0.519628	-3.904156	26532.869683			
HLA A*0206	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.482326
	0.578083	-3.904244	30361.717969			
HLA A*0212	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.305911
	0.401614	-3.904296	20226.026011			
HLA A*3001	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.248879
	0.344471	-3.904408	17736.959014			
HLA A*2902	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.424513
	0.519628	-3.904885	26577.404380			
HLA A*1101	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.471448
	0.566374	-3.905074	29610.669450			
HLA B*4501	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.602897
	0.697746	-3.905151	40077.185350			
HLA B*5301	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.592783
	0.687624	-3.905158	39154.589954			
HLA A*3001	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.191199
	0.286028	-3.905172	15530.995922			
HLA A*0301	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.357940
	0.452621	-3.905319	22800.265635			
HLA B*1801	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.485219
	0.579719	-3.905500	30564.588829			
HLA A*2501	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.466935
	0.561410	-3.905525	29304.537096			

HLA B*4501	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.613005
	0.707433	-3.905571	41020.854003			
HLA B*5101	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.493538
	0.587095	-3.906443	31155.740953			
HLA A*1101	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.487700
	0.581216	-3.906483	30739.699237			
HLA A*0250	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.525933
	0.619394	-3.906539	33568.565551			
HLA B*1801	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.520411
	0.613638	-3.906773	33144.501663			
HLA B*4501	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.613872
	0.706847	-3.907025	41102.823634			
HLA A*0211	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.065074
	0.157927	-3.907148	11616.472049			
HLA A*3301	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.595752
	0.688457	-3.907295	39423.250467			
HLA B*4002	1:135-143	9	DQAYRKPIT	1.136670	-0.428671	-4.615328
	0.707999	-3.907329	41240.919366			
HLA A*0212	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.341848
	0.434427	-3.907421	21970.922087			
HLA B*1502	1:88-969		EAPYELNIT	1.024679	-0.321774	-4.610453
	0.702905	-3.907548	40780.557338			
HLA A*3301	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.578683
	0.671022	-3.907661	37903.858376			
HLA A*2603	1:34-429		GTDGTGQACQ	0.815488	-0.167073	-4.556152
	0.648415	-3.907737	35987.515050			
HLA A*2602	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.614894
	0.706847	-3.908047	41199.664885			
HLA A*2403	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.427708
	0.519628	-3.908080	26773.667396			
HLA B*5801	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.329412
	0.421102	-3.908311	21350.716794			

HLA B*5101	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.470121
	0.561410	-3.908711	29520.300034			
HLA A*3201	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.615615
	0.706847	-3.908768	41268.147624			
HLA A*2603	1:129-137	9	YKAFDWDQA	0.955276	-0.207214	-4.657029
	0.748062	-3.908968	45397.229291			
HLA A*2402	1:53-619		NISLPSYYP	0.515820	0.118220	-4.543018
	0.634040	-3.908978	34915.497805			
HLA A*2301	1:53-619		NISLPSYYP	0.515820	0.118220	-4.543058
	0.634040	-3.909018	34918.709066			
HLA A*2603	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.606922
	0.697746	-3.909176	40450.312482			
HLA A*6801	1:49-579		AYNINISLP	0.584960	0.117828	-4.612006
	0.702788	-3.909219	40926.647079			
HLA B*4403	1:31-399		ELKGTDTGQ	0.941370	-0.200769	-4.649892
	0.740601	-3.909291	44657.212621			
HLA B*0802	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.474282
	0.564800	-3.909481	29804.490709			
HLA B*5301	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.572408
	0.662917	-3.909491	37360.092793			
HLA B*1501	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.215300
	0.305553	-3.909748	16417.246643			
HLA A*6801	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.581129
	0.671022	-3.910107	38117.923539			
HLA A*0219	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.429926
	0.519628	-3.910298	26910.748518			
HLA B*5801	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.363128
	0.452621	-3.910507	23074.248722			
HLA B*1517	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.357298
	0.446632	-3.910667	22766.616783			
HLA B*4403	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.612368
	0.701666	-3.910702	40960.758214			

HLA A*2301	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.532730
	0.621958	-3.910772	34098.073575			
HLA B*0802	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.481067
	0.570132	-3.910935	30273.805599			
HLA A*0203	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.345445
	0.434427	-3.911018	22153.652827			
HLA B*5401	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.559655
	0.648415	-3.911240	36278.969431			
HLA A*0202	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.489337
	0.578083	-3.911255	30855.828003			
HLA B*0702	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.476413
	0.564800	-3.911612	29951.093853			
HLA B*4601	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.384428
	0.472542	-3.911886	24234.161664			
HLA A*3301	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.625666
	0.713674	-3.911992	42234.375054			
HLA A*6801	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.473570
	0.561410	-3.912160	29755.675315			
HLA B*5301	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.608397
	0.696230	-3.912167	40587.972505			
HLA A*3201	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.620204
	0.707433	-3.912770	41706.478312			
HLA B*4002	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.635915
	0.723137	-3.912778	43242.871571			
HLA B*1517	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.333898
	0.421102	-3.912796	21572.358389			
HLA B*3801	1:53-619		NISLPSYYP	0.515820	0.118220	-4.546874
	0.634040	-3.912834	35226.844575			
HLA A*3301	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.561358
	0.648415	-3.912944	36421.541115			
HLA A*0211	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.314895
	0.401614	-3.913281	20648.808285			

HLA A*3101	1:11-199	AVVLLCCSG	0.891360	-0.444728	-4.359986	
	0.446632	-3.913354	22907.954309			
HLA B*5101	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.479850
	0.566374	-3.913476	30189.087389			
HLA B*0803	1:74-829	RDKFLSAAT	0.783794	-0.331173	-4.366393	
	0.452621	-3.913772	23248.415233			
HLA A*2603	1:135-143	9	DQAYRKPI	1.136670	-0.428671	-4.622179
	0.707999	-3.914180	41896.663291			
HLA A*2902	1:77-859	FLSAATSST	0.627583	-0.297236	-4.244537	
	0.330347	-3.914190	17560.517661			
HLA A*3301	1:55-639	SLPSYYPDQ	0.698032	-0.017956	-4.594404	
	0.680076	-3.914327	39301.020257			
HLA A*2603	1:32-409	LKGTDTGQA	1.058870	-0.351437	-4.622013	
	0.707433	-3.914579	41880.573784			
HLA A*0206	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.501700
	0.587095	-3.914605	31746.817477			
HLA A*0203	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.454819
	0.539612	-3.915206	28498.274895			
HLA A*0101	1:80-889	AATSSTPRE	1.057554	-0.585012	-4.388103	
	0.472542	-3.915560	24440.078429			
HLA A*2601	1:80-889	AATSSTPRE	1.057554	-0.585012	-4.388417	
	0.472542	-3.915875	24457.802080			
HLA A*3301	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.622788
	0.706847	-3.915941	41955.408420			
HLA A*2602	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.564267
	0.648272	-3.915994	36666.290986			
HLA B*1503	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.477557
	0.561410	-3.916147	30030.107524			
HLA B*2705	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.454196
	0.537766	-3.916430	28457.448452			
HLA A*3001	1:91-999	YELNITSAT	0.787532	-0.429583	-4.274470	
	0.357949	-3.916520	18813.506731			

HLA A*2501	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.481748
	0.564800	-3.916948	30321.338476			
HLA A*2301	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.536393
	0.619394	-3.916999	34386.873472			
HLA A*2501	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.504339
	0.587095	-3.917243	31940.276158			
HLA A*6801	1:202-210	9	NPGELLPEA	1.188654	-0.463299	-4.642716
	0.725355	-3.917361	43925.456630			
HLA B*5101	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.498688
	0.581216	-3.917472	31527.399889			
HLA B*0802	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.478938
	0.561410	-3.917528	30125.785838			
HLA A*2603	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.631246
	0.713674	-3.917572	42780.523941			
HLA B*5301	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.585546
	0.667964	-3.917582	38507.583549			
HLA B*4002	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.537142
	0.619394	-3.917748	34446.268014			
HLA A*0250	1:53-619		NISLPSYYP	0.515820	0.118220	-4.551960
	0.634040	-3.917921	35641.861501			
HLA B*0803	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.505175
	0.587095	-3.918080	32001.849865			
HLA A*0211	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.531969
	0.613638	-3.918330	34038.358682			
HLA A*2402	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.519028
	0.600517	-3.918510	33039.057288			
HLA A*3001	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.305894
	0.387379	-3.918515	20225.260082			
HLA B*5101	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.483459
	0.564800	-3.918658	30440.991480			
HLA B*7301	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.598924
	0.680076	-3.918848	39712.226238			

HLA A*0250	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.511810
	0.592876	-3.918934	32494.512742			
HLA B*1509	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.438884
	0.519628	-3.919257	27471.625920			
HLA A*0206	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.480691
	0.561410	-3.919281	30247.612468			
HLA B*5801	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.351317
	0.432006	-3.919310	22455.188679			
HLA B*2705	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.484206
	0.564800	-3.919406	30493.405552			
HLA A*2402	1:34-429		GTDTGQACQ	0.815488	-0.167073	-4.568106
	0.648415	-3.919691	36991.848964			
HLA B*2705	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.459842
	0.539612	-3.920230	28829.809341			
HLA A*0203	1:38-469		GQACQIQMS	0.965607	-1.010502	-3.875494
0.044895	-3.920389		7507.482127			-
HLA A*0216	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.344343
	0.423714	-3.920630	22097.514985			
HLA A*0202	1:18-269		SGVATAAPK	0.424227	0.140104	-4.485000
	0.564331	-3.920669	30549.215050			
HLA A*0201	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.393445
	0.472542	-3.920903	24742.599427			
HLA A*2601	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.367768
	0.446632	-3.921136	23322.108021			
HLA B*1517	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.373895
	0.452621	-3.921274	23653.491678			
HLA B*3901	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.486081
	0.564800	-3.921280	30625.332941			
HLA A*2902	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.393842
	0.472542	-3.921300	24765.231219			
HLA B*4002	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.634989
	0.713674	-3.921315	43150.797712			

HLA B*3901	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.508857
	0.587095	-3.921761	32274.292184			
HLA A*6801	1:208-216	9	PEAAGPTQV	0.855949	-0.104037	-4.673859
	0.751912	-3.921947	47190.948743			
HLA B*1517	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.486894
	0.564800	-3.922093	30682.711787			
HLA B*1502	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.593332
	0.671022	-3.922310	39204.187686			
HLA B*4001	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.374969
	0.452621	-3.922348	23712.043012			
HLA A*3301	1:17-259		CSGVATAAP	0.698375	-0.030411	-4.590337
	0.667964	-3.922373	38934.703010			
HLA A*2602	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.620258
	0.697746	-3.922512	41711.668065			
HLA A*0203	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.080487
	0.157927	-3.922560	12036.130099			
HLA B*4403	1:49-579		AYNINISLP	0.584960	0.117828	-4.625408
	0.702788	-3.922620	42209.249369			
HLA A*0301	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.343768
	0.421102	-3.922666	22068.245835			
HLA A*0250	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.176961
	0.253787	-3.923174	15030.084650			
HLA A*0211	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.358227
	0.434427	-3.923800	22815.318925			
HLA A*0250	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.545819
	0.621958	-3.923861	35141.380992			
HLA A*2501	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.463474
	0.539612	-3.923862	29071.944048			
HLA B*0702	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.463530
	0.539612	-3.923918	29075.718917			
HLA B*5101	1:18-269		SGVATAAPK	0.424227	0.140104	-4.488677
	0.564331	-3.924346	30808.957261			

HLA B*2705	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.377152
	0.452621	-3.924531	23831.514658			
HLA A*0211	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.511845
	0.587095	-3.924750	32497.149724			
HLA B*1502	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.491362
	0.566374	-3.924989	31000.054767			
HLA A*0201	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.371677
	0.446632	-3.925045	23533.002752			
HLA A*0206	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.269590
	0.344471	-3.925119	18603.294994			
HLA B*4501	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.628032
	0.702905	-3.925127	42465.085581			
HLA A*2301	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.486750
	0.561410	-3.925340	30672.588064			
HLA B*5301	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.503469
	0.578083	-3.925387	31876.406561			
HLA A*0250	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.525959
	0.600517	-3.925441	33570.563235			
HLA A*2602	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.613223
	0.687624	-3.925599	41041.497595			
HLA A*2501	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.256050
	0.330347	-3.925702	18032.244639			
HLA A*2301	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.539365
	0.613638	-3.925726	34623.007448			
HLA B*4403	1:36-44	9	DTGQACQIQ	0.956574	-0.260344	-4.622149
	0.696230	-3.925919	41893.716863			
HLA A*6901	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.347055
	0.421102	-3.925953	22235.901563			
HLA B*2705	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.445625
	0.519628	-3.925997	27901.338406			
HLA B*5301	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.606140
	0.680076	-3.926063	40377.507123			

HLA B*5701	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.398640
	0.472542	-3.926098	25040.329276			
HLA B*5301	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.527124
	0.600517	-3.926607	33660.764260			
HLA A*3301	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.488090
	0.561410	-3.926679	30767.317165			
HLA A*0201	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.361123
	0.434427	-3.926696	22968.014780			
HLA B*0803	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.311094
	0.384238	-3.926856	20468.853861			
HLA A*3301	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.624665
	0.697746	-3.926919	42137.153246			
HLA B*3901	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.497161
	0.570132	-3.927029	31416.730754			
HLA A*3301	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.628807
	0.701666	-3.927142	42540.964657			
HLA A*0250	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.595245
	0.667964	-3.927281	39377.209883			
HLA B*4002	1:32-40	9	LKGTDTGQA	1.058870	-0.351437	-4.635264
	0.707433	-3.927830	43178.118958			
HLA A*3002	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.315262
	0.387379	-3.927883	20666.242052			
HLA A*0211	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.492384
	0.564331	-3.928054	31073.093158			
HLA A*2603	1:148-156	9	WQADTDPLP	0.614046	0.092801	-4.634944
	0.706847	-3.928097	43146.362560			
HLA A*0101	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.380786
	0.452621	-3.928165	24031.799886			
HLA A*3002	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.550130
	0.621958	-3.928172	35491.971936			
HLA B*3901	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.466162
	0.537766	-3.928396	29252.425702			

HLA B*4403	1:19-279		GVATAAPKT	1.007855	-0.294181	-4.642115
	0.713674	-3.928441	43864.664982			
HLA B*3801	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.542194
	0.613638	-3.928555	34849.260684			
HLA A*0206	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.493482
	0.564800	-3.928681	31151.696037			
HLA A*2501	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.448548
	0.519628	-3.928920	28089.744950			
HLA A*0206	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.448599
	0.519628	-3.928972	28093.088321			
HLA B*1517	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.490385
	0.561410	-3.928975	30930.367159			
HLA B*1501	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.350602
	0.421102	-3.929501	22418.289086			
HLA B*4002	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.627428
	0.697746	-3.929682	42406.085634			
HLA A*6802	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.449436
	0.519628	-3.929808	28147.245512			
HLA A*2301	1:18-269		SGVATAAPK	0.424227	0.140104	-4.494212
	0.564331	-3.929882	31204.152119			
HLA A*2403	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.402646
	0.472542	-3.930104	25272.366286			
HLA A*2602	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.601264
	0.671022	-3.930242	39926.783149			
HLA A*2501	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.265640
	0.335272	-3.930369	18434.883121			
HLA B*5301	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.208872
	0.278445	-3.930427	16176.037009			
HLA B*3901	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.496978
	0.566374	-3.930604	31403.476590			
HLA A*2603	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.531369
	0.600517	-3.930852	33991.434400			

HLA B*4002	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.634018
	0.702905	-3.931113	43054.494190			
HLA B*3501	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.471194
	0.539612	-3.931582	29593.373936			
HLA A*6801	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.629411
	0.697746	-3.931665	42600.152262			
HLA A*0101	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.378496
	0.446632	-3.931864	23905.374465			
HLA B*0802	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.469665
	0.537766	-3.931899	29489.334185			
HLA A*3001	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.092389
	0.160477	-3.931913	12370.560124			
HLA B*1801	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.510299
	0.578083	-3.932217	32381.675041			
HLA B*0802	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.472003
	0.539612	-3.932391	29648.498538			
HLA B*5401	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.210954
	0.278445	-3.932509	16253.757485			
HLA B*0702	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.211175
	0.278445	-3.932730	16262.025104			
HLA B*4403	1:169-177	9	QTGQQVSIA	0.950594	-0.262137	-4.621933
	0.688457	-3.933476	41872.871137			
HLA B*3901	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.317764
	0.384238	-3.933526	20785.654936			
HLA A*0219	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.473694
	0.539612	-3.934082	29764.208208			
HLA B*1509	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.473737
	0.539612	-3.934124	29767.106728			
HLA A*2902	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.368553
	0.434427	-3.934126	23364.286903			
HLA A*0201	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.386766
	0.452621	-3.934145	24364.961994			

HLA A*3301	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.641995
	0.707433	-3.934562	43852.564200			
HLA B*4001	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.407368
	0.472542	-3.934826	25548.674441			
HLA A*3301	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.516293
	0.581216	-3.935076	32831.660364			
HLA B*1801	1:89-979		APYELNITS	1.361001	-1.037258	-4.258872
	0.323743	-3.935129	18149.786562			
HLA B*1517	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.522434
	0.587095	-3.935339	33299.246032			
HLA B*3901	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.335939
	0.400567	-3.935372	21674.012985			
HLA A*0219	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.280078
	0.344471	-3.935607	19058.028577			
HLA B*4403	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.623237
	0.687624	-3.935612	41998.782880			
HLA A*8001	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.475391
	0.539612	-3.935778	29880.692761			
HLA A*1101	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.408397
	0.472542	-3.935855	25609.284609			
HLA A*2601	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.388671
	0.452621	-3.936050	24472.096167			
HLA A*0301	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.368226
	0.432006	-3.936220	23346.724157			
HLA B*4403	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.643731
	0.707433	-3.936298	44028.233642			
HLA B*1502	1:34-429		GTDGQACQ	0.815488	-0.167073	-4.585093
	0.648415	-3.936678	38467.398432			
HLA B*4601	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.389383
	0.452621	-3.936762	24512.243635			
HLA A*2402	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.506972
	0.570132	-3.936840	32134.566045			

HLA B*1502	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.605134
	0.667964	-3.937170	40284.123881			
HLA A*3101	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.338277
	0.400567	-3.937710	21790.995289			
HLA B*1501	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.369718
	0.432006	-3.937712	23427.064599			
HLA B*5701	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.359094
	0.421102	-3.937992	22860.909475			
HLA B*1503	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.502823
	0.564800	-3.938023	31829.018667			
HLA A*0206	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.551829
	0.613638	-3.938190	35631.065300			
HLA A*6802	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.391801
	0.452621	-3.939180	24649.078314			
HLA B*1801	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.504313
	0.564800	-3.939512	31938.375487			
HLA B*4501	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.607528
	0.667964	-3.939564	40506.810482			
HLA B*5801	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.327216
	0.387379	-3.939837	21242.992287			
HLA B*5401	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.562011
	0.621958	-3.940054	36476.358473			
HLA B*4402	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.003950
	0.063696	-3.940254	10091.368143			
HLA B*5301	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.589033
	0.648415	-3.940618	38817.977334			
HLA B*1503	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.393708
	0.452621	-3.941087	24757.595699			
HLA A*3002	1:43-51	9	IQMSDPAYN	0.678035	-0.520108	-4.099057
	0.157927	-3.941131	12561.954119			
HLA A*3201	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.608014
	0.666762	-3.941252	40552.197322			

HLA B*3801	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.563283
	0.621958	-3.941325	36583.272034			
HLA B*1503	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.528426
	0.587095	-3.941330	33761.799545			
HLA A*2301	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.528588
	0.587095	-3.941492	33774.404582			
HLA A*6901	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.329185
	0.387379	-3.941806	21339.515747			
HLA B*0802	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.461587
	0.519628	-3.941960	28945.925344			
HLA A*0202	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.508429
	0.566374	-3.942055	32242.530560			
HLA B*1801	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.479916
	0.537766	-3.942150	30193.660685			
HLA A*0216	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.481948
	0.539612	-3.942336	30335.284664			
HLA A*0101	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.329788
	0.387379	-3.942410	21369.205596			
HLA B*0803	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.520877
	0.578083	-3.942794	33180.023684			
HLA A*2301	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.535782
	0.592876	-3.942906	34338.539888			
HLA A*0216	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.229430
	0.286028	-3.943403	16960.167053			
HLA B*4002	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.109921
	0.166493	-3.943428	12880.158919			
HLA B*4403	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.666690
	0.723137	-3.943554	46418.428137			
HLA A*0201	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.288489
	0.344471	-3.944018	19430.730584			
HLA A*0250	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.345795
	0.401614	-3.944181	22171.517499			

HLA A*0202	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.557876
	0.613638	-3.944238	36130.700481			
HLA A*3001	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.279521
	0.335272	-3.944249	19033.609103			
HLA B*0702	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.397092
	0.452621	-3.944471	24951.216517			
HLA B*0801	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.378909
	0.434427	-3.944482	23928.146579			
HLA A*2603	1:49-579		AYNINISLP	0.584960	0.117828	-4.647310
	0.702788	-3.944522	44392.492308			
HLA A*0301	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.346178
	0.401614	-3.944564	22191.077230			
HLA A*2402	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.566588
	0.621958	-3.944630	36862.795917			
HLA A*2902	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.345659
	0.400567	-3.945092	22164.561754			
HLA A*2402	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.564622
	0.619394	-3.945228	36696.255669			
HLA A*6901	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.377568
	0.432006	-3.945561	23854.345463			
HLA A*2603	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.616588
	0.671022	-3.945566	41360.679234			
HLA B*0803	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.511991
	0.566374	-3.945617	32508.051523			
HLA B*1517	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.465316
	0.519628	-3.945688	29195.510286			
HLA B*5401	1:91-999		YELNITSAT	0.787532	-0.429583	-4.303874
	0.357949	-3.945924	20131.380522			
HLA A*0219	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-3.986634
	0.040514	-3.946120	9696.931897			
HLA A*0206	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.333580
	0.387379	-3.946202	21556.609092			

HLA B*4501	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.642542
	0.696230	-3.946312	43907.875393			
HLA A*3101	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.290836
	0.344471	-3.946365	19536.027846			
HLA A*2601	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.378895
	0.432006	-3.946889	23927.369900			
HLA A*1101	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.486793
	0.539612	-3.947181	30675.575044			
HLA B*1509	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.560907
	0.613638	-3.947269	36383.729748			
HLA B*5701	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.393965
	0.446632	-3.947333	24772.199011			
HLA A*0206	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.382022
	0.434427	-3.947595	24100.282207			
HLA B*4002	1:36-449		DTGQACQIQ	0.956574	-0.260344	-4.643891
	0.696230	-3.947661	44044.433396			
HLA A*0201	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.371381
	0.423714	-3.947667	23516.967040			
HLA A*0301	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.335098
	0.387379	-3.947720	21632.076674			
HLA B*1801	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.517982
	0.570132	-3.947850	32959.614703			
HLA A*0211	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.040405
	0.092119	-3.948286	10975.003294			
HLA B*3801	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.528115
	0.579719	-3.948397	33737.698669			
HLA A*0216	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.382957
	0.434427	-3.948530	24152.229294			
HLA A*0203	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.421080
	0.472542	-3.948538	26368.168588			
HLA A*2602	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.562263
	0.613638	-3.948624	36497.479222			

HLA A*3002	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.240200
	0.291433	-3.948767	17386.019599			
HLA A*2402	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.488395
	0.539612	-3.948783	30788.962987			
HLA A*2902	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.109451
	0.160477	-3.948975	12866.230409			
HLA B*3801	1:41-49	9	CQIQMSDPA	0.720301	-0.119784	-4.549533
	0.600517	-3.949016	35443.235490			
HLA B*3901	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.510461
	0.561410	-3.949051	32393.764805			
HLA B*4601	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.333397
	0.384238	-3.949159	21547.514739			
HLA B*0803	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.487065
	0.537766	-3.949299	30694.831455			
HLA B*0803	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.468939
	0.519628	-3.949311	29440.079350			
HLA A*2602	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.583399
	0.634040	-3.949359	38317.647432			
HLA A*8001	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.370688
	0.421102	-3.949586	23479.465838			
HLA A*2301	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.529363
	0.579719	-3.949644	33834.754645			
HLA B*4801	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.179438
	0.229395	-3.950042	15116.031343			
HLA B*5401	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.563701
	0.613638	-3.950062	36618.517239			
HLA A*2403	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.402759
	0.452621	-3.950138	25278.929732			
HLA A*3201	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.516563
	0.566374	-3.950189	32852.092518			
HLA A*0212	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.236899
	0.286028	-3.950872	17254.371259			

HLA B*3801	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.532152
	0.581216	-3.950936	34052.724925			
HLA B*4002	1:186-194	9	NYQNFAVTN	1.119422	-0.431798	-4.638645
	0.687624	-3.951020	43515.565071			
HLA B*5301	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.573129
	0.621958	-3.951171	37422.193334			
HLA B*5801	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.351968
	0.400567	-3.951400	22488.863887			
HLA A*2403	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.385908
	0.434427	-3.951481	24316.898177			
HLA B*4002	1:16-249		CCSGVATAA	0.892838	-0.221816	-4.622609
	0.671022	-3.951587	41938.161934			
HLA A*8001	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.386063
	0.434427	-3.951636	24325.582141			
HLA B*5301	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.513055
	0.561410	-3.951645	32587.816046			
HLA A*3201	1:91-999		YELNITSAT	0.787532	-0.429583	-4.309721
	0.357949	-3.951772	20404.287119			
HLA B*4001	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.386343
	0.434427	-3.951916	24341.247428			
HLA B*5701	1:54-629		ISLPSYYPD	0.496117	-0.692209	-3.755906
	0.196092	-3.951998	5700.402480			
HLA A*0101	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.386531
	0.434427	-3.952104	24351.784384			
HLA B*7301	1:34-429		GTDGTGQACQ	0.815488	-0.167073	-4.600581
	0.648415	-3.952166	39863.976753			
HLA A*6802	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.376014
	0.423714	-3.952301	23769.196168			
HLA A*0301	1:77-859		FLSAATSST	0.627583	-0.297236	-4.282684
	0.330347	-3.952336	19172.712179			
HLA B*1502	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.545438
	0.592876	-3.952562	35110.596505			

HLA A*6801	1:32-409		LKGTDTGQA	1.058870	-0.351437	-4.660037
	0.707433	-3.952603	45712.680518			
HLA B*4002	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.517421
	0.564800	-3.952620	32917.026662			
HLA A*2603	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.615716
	0.662917	-3.952799	41277.748753			
HLA A*8001	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.405665
	0.452621	-3.953044	25448.664462			
HLA B*0803	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.517984
	0.564800	-3.953184	32959.793011			
HLA B*0803	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.523713
	0.570132	-3.953580	33397.389383			
HLA B*3501	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.406913
	0.452621	-3.954292	25521.874700			
HLA B*4402	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.401046
	0.446632	-3.954414	25179.430788			
HLA B*5101	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.492309
	0.537766	-3.954543	31067.714360			
HLA B*7301	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.389087
	0.434427	-3.954660	24495.540655			
HLA B*4002	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.621498
	0.666762	-3.954736	41830.984497			
HLA A*0206	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.536033
	0.581216	-3.954817	34358.422785			
HLA A*2601	1:77-859		FLSAATSST	0.627583	-0.297236	-4.285202
	0.330347	-3.954855	19284.225471			
HLA B*3501	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.474533
	0.519628	-3.954905	29821.748275			
HLA B*4601	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.378629
	0.423714	-3.954916	23912.747151			
HLA B*5401	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.535129
	0.579719	-3.955410	34286.935284			

HLA B*4403	1:88-96	9	EAPYELNIT	1.024679	-0.321774	-4.658512
	0.702905	-3.955606	45552.463898			
HLA B*4501	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.577802
	0.621958	-3.955844	37827.040446			
HLA B*5701	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.408541
	0.452621	-3.955920	25617.737150			
HLA A*0211	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.526076
	0.570132	-3.955944	33579.645114			
HLA A*6802	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.428598
	0.472542	-3.956056	26828.619046			
HLA A*6801	1:105-113	9	PPRGTQAVV	0.903475	-0.180338	-4.679310
	0.723137	-3.956173	47786.972145			
HLA A*3001	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.280254
	0.323743	-3.956511	19065.762782			
HLA A*0202	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.521323
	0.564800	-3.956523	33214.146265			
HLA A*0101	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.358196
	0.401614	-3.956582	22813.714413			
HLA B*3901	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.476291
	0.519628	-3.956663	29942.669369			
HLA B*3501	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.403651
	0.446632	-3.957020	25330.950543			
HLA B*0803	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.496686
	0.539612	-3.957074	31382.417378			
HLA A*0211	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.535265
	0.578083	-3.957182	34297.695306			
HLA A*0101	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.389214
	0.432006	-3.957208	24502.697681			
HLA A*8001	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.315294
	0.357949	-3.957345	20667.807340			
HLA A*3002	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.518781
	0.561410	-3.957371	33020.295166			

HLA A*3201	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.535817
	0.578083	-3.957734	34341.326516			
HLA B*4002	1:55-63	9	SLPSYYPDQ	0.698032	-0.017956	-4.637909
	0.680076	-3.957833	43441.942719			
HLA A*2602	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.524232
	0.566374	-3.957858	33437.342697			
HLA A*2602	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.620854
	0.662917	-3.957937	41769.023960			
HLA A*2603	1:186-194	9	NYQNFVAVTN	1.119422	-0.431798	-4.645594
	0.687624	-3.957970	44217.522355			
HLA B*4601	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.404857
	0.446632	-3.958225	25401.348491			
HLA A*2301	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.539445
	0.581216	-3.958228	34629.376459			
HLA B*4601	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.288964
	0.330347	-3.958616	19451.976046			
HLA A*1101	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.496571
	0.537766	-3.958805	31374.099486			
HLA A*6802	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.393866
	0.434427	-3.959439	24766.571027			
HLA B*4601	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.361288
	0.401614	-3.959674	22976.714236			
HLA A*3201	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.540953
	0.581216	-3.959737	34749.858542			
HLA B*5401	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.524476
	0.564331	-3.960146	33456.160791			
HLA A*0101	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.384188
	0.423714	-3.960474	24220.792732			
HLA A*0201	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.392506
	0.432006	-3.960499	24689.115429			
HLA B*4403	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.579987
	0.619394	-3.960594	38017.835295			

HLA A*3101	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.348070
	0.387379	-3.960691	22287.929241			
HLA A*2902	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.384642
	0.423714	-3.960928	24246.095077			
HLA A*8001	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.433542
	0.472542	-3.960999	27135.737861			
HLA B*4601	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.382175
	0.421102	-3.961073	24108.758388			
HLA A*6901	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.362063
	0.400567	-3.961496	23017.770361			
HLA B*1502	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.583563
	0.621958	-3.961605	38332.160776			
HLA A*0212	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.414248
	0.452621	-3.961627	25956.591621			
HLA B*5801	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.363285
	0.401614	-3.961671	23082.613790			
HLA A*2403	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.319625
	0.357949	-3.961675	20874.904887			
HLA A*6801	1:177-185	9	APNAGLDPV	0.672482	0.029184	-4.663566
	0.701666	-3.961900	46085.639134			
HLA A*3301	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.581294
	0.619394	-3.961900	38132.361235			
HLA B*0803	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.523428
	0.561410	-3.962018	33375.534720			
HLA A*2601	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.385763
	0.423714	-3.962049	24308.743338			
HLA A*6802	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.054403
	0.092119	-3.962284	11334.513678			
HLA B*1801	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.528940
	0.566374	-3.962566	33801.823073			
HLA B*4002	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.630823
	0.667964	-3.962859	42738.885397			

HLA A*2601	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.384303
	0.421102	-3.963202	24227.214141			
HLA A*2902	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.409838
	0.446632	-3.963206	25694.352683			
HLA B*4501	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.643322
	0.680076	-3.963246	43986.808454			
HLA A*0101	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.384780
	0.421102	-3.963678	24253.835264			
HLA B*4403	1:170-178	9	TGQQVSIAP	0.814303	-0.116557	-4.661458
	0.697746	-3.963712	45862.542455			
HLA B*0702	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.410387
	0.446632	-3.963755	25726.900123			
HLA A*1101	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.483499
	0.519628	-3.963871	30443.791209			
HLA A*2601	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.398330
	0.434427	-3.963903	25022.454226			
HLA B*4001	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.410618
	0.446632	-3.963986	25740.543347			
HLA A*2603	1:18-269		SGVATAAPK	0.424227	0.140104	-4.528416
	0.564331	-3.964086	33761.068963			
HLA A*0301	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.364918
	0.400567	-3.964351	23169.564845			
HLA A*2301	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.534586
	0.570132	-3.964453	34244.114198			
HLA B*3801	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.542539
	0.578083	-3.964456	34876.985710			
HLA B*0802	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.348946
	0.384238	-3.964708	22332.949208			
HLA B*4801	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.437451
	0.472542	-3.964909	27381.118086			
HLA A*3002	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.535150
	0.570132	-3.965017	34288.604721			

HLA A*3301	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.627938
	0.662917	-3.965021	42455.897319			
HLA B*5801	1:138-146	9	YRKPIYDT	0.544186	-0.159948	-4.349425
	0.384238	-3.965188	22357.609844			
HLA A*2902	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.397435
	0.432006	-3.965428	24970.931866			
HLA A*0206	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.389750
	0.423714	-3.966036	24532.939296			
HLA A*0250	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.579938
	0.613638	-3.966300	38013.516423			
HLA A*0201	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.324328
	0.357949	-3.966379	21102.221356			
HLA A*3201	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.353880
	0.387379	-3.966501	22588.115341			
HLA B*2705	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.324476
	0.357949	-3.966527	21109.414705			
HLA A*0201	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.387727
	0.421102	-3.966625	24418.932684			
HLA A*0211	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.531684
	0.564800	-3.966884	34016.084579			
HLA A*0211	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.486988
	0.519628	-3.967360	30689.352108			
HLA B*1502	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.505448
	0.537766	-3.967682	32021.938837			
HLA B*5301	1:98-106	9	ATYQSAIPP	0.417465	0.201929	-4.587170
	0.619394	-3.967776	38651.803280			
HLA A*2602	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.634669
	0.666762	-3.967907	43119.061408			
HLA A*0206	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.369631
	0.401614	-3.968017	23422.375769			
HLA A*2301	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.546145
	0.578083	-3.968063	35167.816355			

HLA A*6901	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.352459
	0.384238	-3.968221	22514.305680			
HLA B*4001	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.213496
	0.245175	-3.968321	16349.177855			
HLA B*0702	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.400470
	0.432006	-3.968464	25146.079502			
HLA B*1509	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.506317
	0.537766	-3.968551	32086.100032			
HLA B*5401	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.535030
	0.566374	-3.968656	34279.145651			
HLA A*0219	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.441398
	0.472542	-3.968856	27631.108806			
HLA A*0206	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.353161
	0.384238	-3.968923	22550.753320			
HLA A*0219	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.127002
	0.157927	-3.969075	13396.827874			
HLA B*0702	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.441936
	0.472542	-3.969394	27665.361222			
HLA A*2402	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.583213
	0.613638	-3.969575	38301.274687			
HLA A*0201	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.353925
	0.384238	-3.969687	22590.437246			
HLA B*1503	1:89-979		APYELNITS	1.361001	-1.037258	-4.293750
	0.323743	-3.970007	19667.521203			
HLA B*7301	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.223871
	0.253524	-3.970347	16744.463770			
HLA A*0206	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.242087
	0.271476	-3.970611	17461.711208			
HLA A*0212	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.315264
	0.344471	-3.970793	20666.353854			
HLA B*4501	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.637630
	0.666762	-3.970867	43413.984804			

HLA A*2402	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.550762
	0.579719	-3.971043	35543.659590			
HLA A*0219	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.355849
	0.384238	-3.971611	22690.750743			
HLA A*3201	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.585255
	0.613638	-3.971617	38481.760314			
HLA B*4601	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.406196
	0.434427	-3.971769	25479.797917			
HLA B*4002	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.620697
	0.648272	-3.972424	41753.886996			
HLA B*1517	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.512125
	0.539612	-3.972513	32518.077371			
HLA A*8001	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.356869
	0.384238	-3.972631	22744.088764			
HLA B*3901	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.512341
	0.539612	-3.972729	32534.265965			
HLA B*3801	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.542868
	0.570132	-3.972735	34903.411004			
HLA A*6901	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.396589
	0.423714	-3.972875	24922.346802			
HLA B*3501	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.407375
	0.434427	-3.972948	25549.089091			
HLA B*3801	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.539614
	0.566374	-3.973240	34642.867645			
HLA A*0212	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.358017
	0.384238	-3.973780	22804.336446			
HLA A*0216	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.420420
	0.446632	-3.973788	26328.114708			
HLA B*3801	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.560900
	0.587095	-3.973805	36383.139257			
HLA A*2603	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.640595
	0.666762	-3.973832	43711.398346			

HLA A*0101	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.374433
	0.400567	-3.973866	23682.813311			
HLA A*2603	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.567082
	0.592876	-3.974206	36904.698680			
HLA A*3002	1:77-859		FLSAATSST	0.627583	-0.297236	-4.305131
	0.330347	-3.974783	20189.730990			
HLA B*4001	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.376426
	0.401614	-3.974812	23791.709849			
HLA A*0216	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.447545
	0.472542	-3.975002	28024.931891			
HLA A*0212	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.447812
	0.472542	-3.975270	28042.220964			
HLA B*5301	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.545527
	0.570132	-3.975395	35117.815136			
HLA B*0801	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.320362
	0.344471	-3.975891	20910.395332			
HLA B*3901	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.254349
	0.278445	-3.975904	17961.754805			
HLA A*2402	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.557179
	0.581216	-3.975962	36072.694558			
HLA B*5401	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.540883
	0.564800	-3.976082	34744.219214			
HLA B*5101	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.515814
	0.539612	-3.976201	32795.446760			
HLA A*0211	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.537730
	0.561410	-3.976319	34492.887156			
HLA A*2402	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.537896
	0.561410	-3.976486	34506.138492			
HLA B*4001	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.400240
	0.423714	-3.976526	25132.751361			
HLA B*4403	1:55-639		SLPSYYPDQ	0.698032	-0.017956	-4.656630
	0.680076	-3.976554	45355.497508			

HLA A*2902	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.335164
	0.357949	-3.977215	21635.353682		
HLA A*0203	1:22-30 9	TAAPKTYCE	1.011561	-0.590459	-4.398504
	0.421102	-3.977402	25032.473515		
HLA B*4801	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.069505
	0.091985	-3.977521	11735.602217		
HLA B*0802	1:80-88 9	AATSSTPRE	1.057554	-0.585012	-4.450559
	0.472542	-3.978017	28220.126426		
HLA B*5701	1:216-224 9	VLVPRSAID	1.164467	-0.740753	-4.401927
	0.423714	-3.978213	25230.564361		
HLA A*2403	1:181-189 9	GLDPVNYQN	1.035268	-0.647889	-4.365632
	0.387379	-3.978253	23207.701008		
HLA A*2602	1:73-81 9	TRDKFLSAA	0.841706	-0.248830	-4.571346
	0.592876	-3.978470	37268.848887		
HLA A*6901	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.284768
	0.305553	-3.979215	19264.934904		
HLA B*1501	1:181-189 9	GLDPVNYQN	1.035268	-0.647889	-4.366647
	0.387379	-3.979268	23262.002507		
HLA A*8001	1:216-224 9	VLVPRSAID	1.164467	-0.740753	-4.403217
	0.423714	-3.979503	25305.611263		
HLA A*0203	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.251156
	0.271476	-3.979680	17830.183528		
HLA A*0202	1:22-30 9	TAAPKTYCE	1.011561	-0.590459	-4.400945
	0.421102	-3.979843	25173.574098		
HLA A*2402	1:18-26 9	SGVATAAPK	0.424227	0.140104	-4.544205
	0.564331	-3.979874	35011.017156		
HLA A*6801	1:205-213 9	ELLPEAAGP	0.578973	-0.041207	-4.517778
	0.537766	-3.980012	32944.105569		
HLA A*2301	1:101-109 9	QSAIPPRGT	0.865514	-0.299140	-4.546728
	0.566374	-3.980354	35215.031010		
HLA A*0206	1:133-141 9	DWDQAYRKP	0.647933	-0.108321	-4.520179
	0.539612	-3.980567	33126.754916		

HLA A*0203	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-3.856440
	-0.124403	-3.980843	7185.218569			
HLA A*0301	1:138-146	9	YRKPIYDT	0.544186	-0.159948	-4.365322
	0.384238	-3.981084	23191.134180			
HLA B*5301	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.594754
	0.613638	-3.981116	39332.712538			
HLA A*6901	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.272623
	0.291433	-3.981190	18733.678290			
HLA A*2301	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.546371
	0.564800	-3.981571	35186.085482			
HLA A*2403	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.428464
	0.446632	-3.981832	26820.347350			
HLA A*6802	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.383563
	0.401614	-3.981949	24185.963338			
HLA A*3201	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.434730
	0.452621	-3.982109	27210.121098			
HLA A*2501	1:91-999		YELNITSAT	0.787532	-0.429583	-4.340079
	0.357949	-3.982130	21881.602369			
HLA B*4501	1:34-429		GTDGTGACQ	0.815488	-0.167073	-4.630546
	0.648415	-3.982131	42711.611013			
HLA B*0803	1:77-859		FLSAATSST	0.627583	-0.297236	-4.312642
	0.330347	-3.982294	20541.957953			
HLA A*0212	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.428934
	0.446632	-3.982302	26849.382076			
HLA B*5101	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.501996
	0.519628	-3.982368	31768.464947			
HLA A*2301	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.522136
	0.539612	-3.982524	33276.375446			
HLA A*0211	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.143669
	0.160477	-3.983193	13920.961234			
HLA B*1509	1:195-203	9	DGVIFFNPG	0.675455	-0.114045	-4.544618
	0.561410	-3.983208	35044.368438			

HLA A*3002	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.404403
	0.421102	-3.983301	25374.840566			
HLA A*0219	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.429966
	0.446632	-3.983334	26913.223563			
HLA B*5401	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.564619
	0.581216	-3.983403	36696.057147			
HLA B*5701	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.416209
	0.432006	-3.984203	26074.109457			
HLA B*1517	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.275656
	0.291433	-3.984223	18864.975392			
HLA B*1503	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.407944
	0.423714	-3.984230	25582.559689			
HLA A*3201	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.522019
	0.537766	-3.984253	33267.375588			
HLA B*4403	1:200-208	9	FFNPGELLP	0.676947	-0.010185	-4.651501
	0.666762	-3.984739	44823.009174			
HLA B*4601	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.417074
	0.432006	-3.985068	26126.070522			
HLA B*0702	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.408809
	0.423714	-3.985095	25633.541183			
HLA A*3201	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.077226
	0.092119	-3.985107	11946.090162			
HLA B*0702	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.406212
	0.421102	-3.985111	25480.762836			
HLA B*4801	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.419734
	0.434427	-3.985307	26286.557343			
HLA B*4402	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.406419
	0.421102	-3.985317	25492.896357			
HLA B*4801	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.417375
	0.432006	-3.985368	26144.168198			
HLA B*0702	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.369866
	0.384238	-3.985628	23435.050443			

HLA B*4001	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.373019
	0.387379	-3.985640	23605.809691			
HLA B*0801	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.264181
	0.278445	-3.985736	18373.054289			
HLA A*2902	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.438445
	0.452621	-3.985824	27443.848322			
HLA B*4403	1:16-24	9	CCSGVATAA	0.892838	-0.221816	-4.656987
	0.671022	-3.985965	45392.808815			
HLA A*2403	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.316333
	0.330347	-3.985986	20717.286735			
HLA A*0212	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.407234
	0.421102	-3.986133	25540.797372			
HLA B*4403	1:17-25	9	CSGVATAAP	0.698375	-0.030411	-4.654102
	0.667964	-3.986138	45092.248246			
HLA B*1502	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.564537
	0.578083	-3.986454	36689.109549			
HLA A*3002	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.321880
	0.335272	-3.986608	20983.600582			
HLA A*3002	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.085148
	0.098300	-3.986848	12166.012312			
HLA B*4403	1:119-127	9	NAGGTHPTT	1.008013	-0.359741	-4.635344
	0.648272	-3.987071	43186.061709			
HLA A*2602	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.609300
	0.621958	-3.987342	40672.377496			
HLA B*7301	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.609485
	0.621958	-3.987527	40689.763822			
HLA A*2403	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.389242
	0.401614	-3.987628	24504.288415			
HLA B*3501	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.411534
	0.423714	-3.987820	25794.909539			
HLA B*3801	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.525853
	0.537766	-3.988087	33562.391643			

HLA A*3002	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.525937
	0.537766	-3.988172	33568.928757			
HLA A*3002	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.507971
	0.519628	-3.988343	32208.534934			
HLA A*0219	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.440975
	0.452621	-3.988354	27604.215280			
HLA B*0802	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.409584
	0.421102	-3.988482	25679.344679			
HLA A*0203	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.375975
	0.387379	-3.988596	23767.010260			
HLA A*3001	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.087357
	0.098300	-3.989057	12228.037658			
HLA B*7301	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.602831
	0.613638	-3.989193	40071.115042			
HLA B*4801	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.435945
	0.446632	-3.989313	27286.331959			
HLA A*2402	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.554434
	0.564800	-3.989634	35845.478816			
HLA A*6802	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.421705
	0.432006	-3.989699	26406.140502			
HLA A*2402	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.582757
	0.592876	-3.989882	38261.097878			
HLA A*2602	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.088334
	0.098300	-3.990034	12255.588016			
HLA A*3301	1:18-26	9	SGVATAAPK	0.424227	0.140104	-4.554416
	0.564331	-3.990085	35843.927489			
HLA B*4402	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.422175
	0.432006	-3.990168	26434.726822			
HLA B*4002	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.638609
	0.648415	-3.990195	43512.033998			
HLA A*6802	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.226014
	0.235698	-3.990316	16827.282059			

HLA A*6801	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.590875
	0.600517	-3.990358	38982.967726			
HLA A*1101	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.378120
	0.387379	-3.990741	23884.691349			
HLA A*2602	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.463610
	0.472542	-3.991068	29081.067487			
HLA B*1801	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.443752
	0.452621	-3.991132	27781.295696			
HLA A*0201	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.392776
	0.401614	-3.991162	24704.480226			
HLA B*0702	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.425734
	0.434427	-3.991307	26652.275664			
HLA A*2601	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.393053
	0.401614	-3.991439	24720.255784			
HLA A*2301	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.326783
	0.335272	-3.991512	21221.857117			
HLA B*4001	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.392184
	0.400567	-3.991617	24670.823751			
HLA A*2602	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.529997
	0.537766	-3.992231	33884.212170			
HLA A*6901	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.393906
	0.401614	-3.992292	24768.848867			
HLA A*0201	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.392877
	0.400567	-3.992310	24710.227780			
HLA A*0219	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.416184
	0.423714	-3.992470	26072.557865			
HLA B*5301	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.579814
	0.587095	-3.992718	38002.618593			
HLA B*7301	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.554225
	0.561410	-3.992815	35828.224084			
HLA B*0802	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.445580
	0.452621	-3.992959	27898.470634			

HLA A*1101	1:11-199	AVVLLCCSG	0.891360	-0.444728	-4.439834	
	0.446632	-3.993202	27531.733435			
HLA B*4001	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.425831
	0.432006	-3.993824	26658.187940			
HLA A*0219	1:22-309	TAAPKTYCE	1.011561	-0.590459	-4.415063	
	0.421102	-3.993961	26005.363917			
HLA B*7301	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.572272
	0.578083	-3.994189	37348.372022			
HLA B*1509	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.558997
	0.564800	-3.994197	36224.056774			
HLA A*0202	1:74-829	RDKFLSAAT	0.783794	-0.331173	-4.447075	
	0.452621	-3.994454	27994.625934			
HLA A*1101	1:74-829	RDKFLSAAT	0.783794	-0.331173	-4.447138	
	0.452621	-3.994517	27998.715324			
HLA A*0212	1:43-519	IQMSDPAYN	0.678035	-0.520108	-4.152597	
	0.157927	-3.994671	14210.104349			
HLA B*2705	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.224130
	0.229395	-3.994734	16754.431161			
HLA A*3201	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.071075
	0.076178	-3.994896	11778.089130			
HLA B*1502	1:40-489	ACQIQMSDP	0.533748	0.079890	-4.608675	
	0.613638	-3.995036	40613.890796			
HLA A*2402	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.573416
	0.578083	-3.995333	37446.900377			
HLA A*2603	1:53-619	NISLPSYYP	0.515820	0.118220	-4.629421	
	0.634040	-3.995381	42601.074120			
HLA A*3101	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.427393
	0.432006	-3.995387	26754.265524			
HLA A*2601	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.396582
	0.400567	-3.996015	24921.942324			
HLA A*3002	1:26-349	KTYCEELKG	0.984658	-0.550231	-4.430478	
	0.434427	-3.996051	26944.982554			

HLA A*2301	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.533890
	0.537766	-3.996125	34189.322049			
HLA A*3001	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-3.871735
	-0.124403	-3.996138	7442.779126			
HLA A*3001	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.225798
	0.229395	-3.996402	16818.909039			
HLA B*5801	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.354359
	0.357949	-3.996410	22613.057739			
HLA B*1509	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.566685
	0.570132	-3.996552	36870.973194			
HLA A*3201	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.589536
	0.592876	-3.996660	38862.943563			
HLA A*2501	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.443508
	0.446632	-3.996876	27765.669545			
HLA B*4801	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.420699
	0.423714	-3.996985	26345.069594			
HLA B*5301	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.589888
	0.592876	-3.997012	38894.492994			
HLA B*4001	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.418242
	0.421102	-3.997140	26196.410597			
HLA A*3101	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.381414
	0.384238	-3.997176	24066.537471			
HLA A*2403	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.429595
	0.432006	-3.997588	26890.228978			
HLA B*4402	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.432282
	0.434427	-3.997855	27057.166318			
HLA A*0250	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.585459
	0.587095	-3.998364	38499.876415			
HLA B*4403	1:34-42	9	GTDGQACQ	0.815488	-0.167073	-4.647293
	0.648415	-3.998878	44390.811230			
HLA A*0212	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.431211
	0.432006	-3.999205	26990.501001			

HLA A*0203	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.431502
	0.432006	-3.999496	27008.613012			
HLA B*1517	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.091732
	0.092119	-3.999613	12351.835769			
HLA A*0250	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.577821
	0.578083	-3.999738	37828.677602			
HLA B*4402	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.384033
	0.384238	-3.999796	24212.146176			
HLA B*3501	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.431834
	0.432006	-3.999827	27029.222890			
HLA A*3001	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.271502
	0.271476	-4.000026	18685.398033			
HLA A*0219	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.432111
	0.432006	-4.000104	27046.482960			
HLA B*3801	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.539952
	0.539612	-4.000340	34669.865786			
HLA B*3801	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.561774
	0.561410	-4.000364	36456.433278			
HLA A*0101	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.384644
	0.384238	-4.000406	24246.226246			
HLA B*0801	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.432524
	0.432006	-4.000518	27072.247275			
HLA A*2902	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.272172
	0.271476	-4.000696	18714.229745			
HLA B*2705	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.473361
	0.472542	-4.000819	29741.351997			
HLA B*1502	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.424914
	0.423714	-4.001200	26602.002275			
HLA B*1503	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.541164
	0.539612	-4.001552	34766.782021			
HLA B*5301	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.581273
	0.579719	-4.001554	38130.504653			

HLA B*3901	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.454203
	0.452621	-4.001582	28457.910311		
HLA B*1502	1:176-184 9	IAPNAGLDP	0.476515	0.093617	-4.571727
	0.570132	-4.001594	37301.525699		
HLA B*2705	1:181-189 9	GLDPVNYQN	1.035268	-0.647889	-4.389209
	0.387379	-4.001831	24502.432569		
HLA A*2402	1:203-211 9	PGELLPEAA	1.144110	-0.557015	-4.588979
	0.587095	-4.001884	38813.147613		
HLA A*0301	1:94-102 9	NITSATYQS	1.243610	-0.899139	-4.346503
	0.344471	-4.002031	22207.650491		
HLA A*0101	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.332716
	0.330347	-4.002368	21513.736040		
HLA B*4601	1:143-151 9	TYDTLWQAD	1.156171	-0.755604	-4.402998
	0.400567	-4.002431	25292.882714		
HLA A*0250	1:18-26 9	SGVATAAPK	0.424227	0.140104	-4.567079
	0.564331	-4.002749	36904.499030		
HLA A*6901	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.281882
	0.278445	-4.003437	19137.375497		
HLA A*0219	1:26-34 9	KTYCEELKG	0.984658	-0.550231	-4.437928
	0.434427	-4.003501	27411.204753		
HLA A*6901	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.080186
	0.076178	-4.004008	12027.798375		
HLA B*4402	1:143-151 9	TYDTLWQAD	1.156171	-0.755604	-4.404622
	0.400567	-4.004055	25387.610360		
HLA A*2403	1:216-224 9	VLVPRSAID	1.164467	-0.740753	-4.427886
	0.423714	-4.004173	26784.677694		
HLA B*1509	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.257723
	0.253524	-4.004198	18101.835920		
HLA B*1501	1:94-102 9	NITSATYQS	1.243610	-0.899139	-4.349064
	0.344471	-4.004592	22338.990964		
HLA A*0250	1:176-184 9	IAPNAGLDP	0.476515	0.093617	-4.574908
	0.570132	-4.004775	37575.762161		

HLA A*0206	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.457462	
	0.452621	-4.004841	28672.247840			
HLA A*2602	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.582931
	0.578083	-4.004849	38276.418078			
HLA A*0202	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.575136
	0.570132	-4.005003	37595.485564			
HLA A*2601	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.392600
	0.387379	-4.005221	24694.458622			
HLA B*0801	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.329044	
	0.323743	-4.005301	21332.590206			
HLA A*3002	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.429143
	0.423714	-4.005430	26862.312633			
HLA A*3002	1:138-146	9	YRKPIYDT	0.544186	-0.159948	-4.389792
	0.384238	-4.005554	24535.328381			
HLA B*2705	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.452338	
	0.446632	-4.005706	28335.932885			
HLA B*3501	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-3.640142	-
	0.365615	-4.005757	4366.582755			
HLA B*5101	1:80-88 9	AATSSTPRE	1.057554	-0.585012	-4.478377	
	0.472542	-4.005835	30086.859467			
HLA B*5801	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.350732
	0.344471	-4.006261	22424.960503			
HLA B*1501	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.277891
	0.271476	-4.006415	18962.282101			
HLA A*0301	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.364845	
	0.357949	-4.006896	23165.679483			
HLA A*6801	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.573341
	0.566374	-4.006967	37440.418263			
HLA B*0702	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.365007	
	0.357949	-4.007058	23174.328436			
HLA B*3901	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.394439
	0.387379	-4.007060	24799.284808			

HLA B*5301	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.588356
	0.581216	-4.007140	38757.544151			
HLA A*0219	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.293174
	0.286028	-4.007146	19641.470689			
HLA B*3801	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.572006
	0.564800	-4.007206	37325.547287			
HLA B*5701	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.394947
	0.387379	-4.007568	24828.280605			
HLA B*0702	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.279075
	0.271476	-4.007599	19014.054908			
HLA B*1801	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.408207
	0.400567	-4.007640	25598.065053			
HLA A*3101	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.342929
	0.335272	-4.007657	22025.665892			
HLA A*2602	1:18-269		SGVATAAPK	0.424227	0.140104	-4.572044
	0.564331	-4.007713	37328.778260			
HLA A*0202	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.442378
	0.434427	-4.007951	27693.512845			
HLA B*1509	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.392322
	0.384238	-4.008085	24678.699527			
HLA A*6801	1:162-170	9	VQGELSKQT	0.977010	-0.314093	-4.671068
	0.662917	-4.008150	46888.627497			
HLA B*7301	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.589634
	0.581216	-4.008418	38871.774823			
HLA A*8001	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.455216
	0.446632	-4.008584	28524.341963			
HLA B*5801	1:77-859		FLSAATSST	0.627583	-0.297236	-4.339278
	0.330347	-4.008931	21841.273008			
HLA B*5701	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.410597
	0.401614	-4.008982	25739.290096			
HLA A*2501	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.481629
	0.472542	-4.009086	30312.973841			

HLA B*4002	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.631119
	0.621958	-4.009161	42768.028120			
HLA A*2402	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.575660
	0.566374	-4.009286	37640.868326			
HLA B*3501	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.411083
	0.401614	-4.009469	25768.130310			
HLA B*1501	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.393981
	0.384238	-4.009743	24773.137133			
HLA A*0206	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.333606
	0.323743	-4.009864	21557.891937			
HLA A*2601	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.345201
	0.335272	-4.009929	22141.192057			
HLA A*0101	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.368167
	0.357949	-4.010218	23343.566791			
HLA A*0211	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.550231
	0.539612	-4.010619	35500.229225			
HLA A*0216	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.463357
	0.452621	-4.010736	29064.081311			
HLA A*6802	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.051424
	0.040514	-4.010909	11257.027938			
HLA A*2501	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.463775
	0.452621	-4.011154	29092.082347			
HLA B*4801	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.395400
	0.384238	-4.011162	24854.217564			
HLA B*4501	1:53-61	9	NISLPSYYP	0.515820	0.118220	-4.645282
	0.634040	-4.011242	44185.718616			
HLA A*0216	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.355969
	0.344471	-4.011498	22697.012084			
HLA A*2403	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.395748
	0.384238	-4.011510	24874.125400			
HLA A*0211	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.265328
	0.253787	-4.011541	18421.623712			

HLA B*2705	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.444084
	0.432006	-4.012077	27802.495197			
HLA A*3101	1:91-999	9	YELNITSAT	0.787532	-0.429583	-4.370225
	0.357949	-4.012276	23454.455970			
HLA B*1509	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.283997
	0.271476	-4.012521	19230.780674			
HLA B*4002	1:53-619	9	NISLPSYYP	0.515820	0.118220	-4.646746
	0.634040	-4.012706	44334.891678			
HLA B*0803	1:26-349	9	KTYCEELKG	0.984658	-0.550231	-4.447253
	0.434427	-4.012826	28006.138335			
HLA A*8001	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.445066
	0.432006	-4.013060	27865.437054			
HLA A*2403	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.299266
	0.286028	-4.013239	19918.939743			
HLA B*3901	1:80-889	9	AATSSTPRE	1.057554	-0.585012	-4.485963
	0.472542	-4.013421	30617.050079			
HLA B*1509	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.445846
	0.432006	-4.013840	27915.530670			
HLA B*0802	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.415523
	0.401614	-4.013909	26032.953024			
HLA A*3002	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.601020
	0.587095	-4.013925	39904.325522			
HLA A*2403	1:45-539	9	MSDPAYNIN	0.920513	-0.629080	-4.305436
	0.291433	-4.014003	20203.935131			
HLA B*5701	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.398527
	0.384238	-4.014290	25033.827781			
HLA A*2603	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.575749
	0.561410	-4.014339	37648.607173			
HLA B*0801	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.320078
	0.305553	-4.014525	20896.711937			
HLA B*2705	1:26-349	9	KTYCEELKG	0.984658	-0.550231	-4.449356
	0.434427	-4.014929	28142.068690			

HLA A*3301	1:41-499		CQIQMSDPA	0.720301	-0.119784	-4.616247
	0.600517	-4.015730	41328.247236			
HLA B*0702	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.417661
	0.401614	-4.016047	26161.429214			
HLA B*5701	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.416698
	0.400567	-4.016131	26103.466043			
HLA A*0211	1:89-979		APYELNITS	1.361001	-1.037258	-4.340037
	0.323743	-4.016294	21879.471686			
HLA B*1801	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.246006
	0.229395	-4.016610	17619.993437			
HLA A*3201	1:18-269		SGVATAAPK	0.424227	0.140104	-4.581263
	0.564331	-4.016933	38129.679535			
HLA A*0212	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.246337
	0.229395	-4.016942	17633.438996			
HLA A*2403	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.438262
	0.421102	-4.017160	27432.270247			
HLA A*0212	1:89-979		APYELNITS	1.361001	-1.037258	-4.340948
	0.323743	-4.017206	21925.445740			
HLA A*2601	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.361760
	0.344471	-4.017289	23001.712422			
HLA B*7301	1:91-999		YELNITSAT	0.787532	-0.429583	-4.375528
	0.357949	-4.017579	23742.593202			
HLA A*3201	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.587905
	0.570132	-4.017773	38717.307640			
HLA A*0206	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.490601
	0.472542	-4.018059	30945.765338			
HLA A*2902	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.419724
	0.401614	-4.018110	26285.988520			
HLA B*4501	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.631864
	0.613638	-4.018226	42841.435428			
HLA B*3801	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.537861
	0.519628	-4.018233	34503.338490			

HLA B*4002	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.631920
	0.613638	-4.018282	42846.998207			
HLA B*4001	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.402557
	0.384238	-4.018319	25267.171433			
HLA B*4402	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.442106
	0.423714	-4.018392	27676.139312			
HLA A*0250	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.585088
	0.566374	-4.018714	38466.982226			
HLA B*4501	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.585229
	0.566374	-4.018855	38479.470379			
HLA B*5801	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.354150
	0.335272	-4.018878	22602.172622			
HLA A*2602	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.583732
	0.564800	-4.018932	38347.094521			
HLA A*3301	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.641053
	0.621958	-4.019095	43757.535072			
HLA B*4801	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.440207
	0.421102	-4.019105	27555.425660			
HLA A*2501	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.440259
	0.421102	-4.019157	27558.705435			
HLA A*0101	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.364229
	0.344471	-4.019758	23132.867917			
HLA A*2601	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.404413
	0.384238	-4.020175	25375.389672			
HLA B*1501	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.274106
	0.253787	-4.020318	18797.737600			
HLA A*0216	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.441777
	0.421102	-4.020675	27655.185769			
HLA B*7301	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.587073
	0.566374	-4.020700	38643.231049			
HLA A*2301	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.540457
	0.519628	-4.020829	34710.214675			

HLA B*5401	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.558931
	0.537766	-4.021165	36218.570082			
HLA B*1503	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.275459
	0.253787	-4.021672	18856.404516			
HLA B*1501	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.422480
	0.400567	-4.021913	26453.324524			
HLA A*3101	1:54-62	9	ISLPSYYPD	0.496117	-0.692209	-3.825864
0.196092	-4.021956	6696.745365				-
HLA B*3501	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.422711
	0.400567	-4.022143	26467.352978			
HLA A*2603	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.644516
	0.621958	-4.022558	44107.860305			
HLA A*8001	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.423209
	0.400567	-4.022642	26497.725707			
HLA A*3301	1:40-48	9	ACQIQMSDP	0.533748	0.079890	-4.636819
	0.613638	-4.023181	43333.032001			
HLA B*4501	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.097666
	0.073876	-4.023791	12521.786877			
HLA A*3201	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.611005
	0.587095	-4.023910	40832.435607			
HLA B*7301	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.594174
	0.570132	-4.024041	39280.189591			
HLA B*3901	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.445275
	0.421102	-4.024173	27878.856939			
HLA A*2601	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.382175
	0.357949	-4.024225	24108.758388			
HLA A*0203	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.329784
	0.305553	-4.024231	21368.974387			
HLA A*3001	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.302729
	0.278445	-4.024284	20078.411871			
HLA A*6802	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.424997
	0.400567	-4.024429	26607.039737			

HLA B*4403	1:120-128	9	AGGTHPTTT	0.991249	-0.369291	-4.646541
	0.621958	-4.024583	44314.029912			
HLA A*0211	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.369575
	0.344471	-4.025103	23419.334868			
HLA B*4501	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.604828
	0.579719	-4.025110	40255.802598			
HLA B*5301	1:18-269		SGVATAAPK	0.424227	0.140104	-4.589475
	0.564331	-4.025144	38857.477597			
HLA B*1517	1:77-859		FLSAATSST	0.627583	-0.297236	-4.355496
	0.330347	-4.025149	22672.345045			
HLA A*0216	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.425805
	0.400567	-4.025238	26656.601591			
HLA B*5801	1:89-979		APYELNITS	1.361001	-1.037258	-4.349677
	0.323743	-4.025934	22370.555475			
HLA B*1503	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.317482
	0.291433	-4.026049	20772.165544			
HLA A*0216	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.410355
	0.384238	-4.026117	25724.951681			
HLA B*5101	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.472905
	0.446632	-4.026273	29710.154272			
HLA B*0802	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.460730
	0.434427	-4.026303	28888.824838			
HLA B*4002	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.606217
	0.579719	-4.026498	40384.716215			
HLA A*0216	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.428474
	0.401614	-4.026860	26820.927737			
HLA B*5401	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.473530
	0.446632	-4.026898	29752.938867			
HLA B*4801	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.427710
	0.400567	-4.027143	26773.812239			
HLA A*0301	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.187633
	0.160477	-4.027156	15403.974373			

HLA B*4001	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.357616
	0.330347	-4.027268	22783.250114		
HLA B*1502	1:203-211 9	PGELLPEAA	1.144110	-0.557015	-4.614384
	0.587095	-4.027289	41151.327085		
HLA A*3101	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.357691
	0.330347	-4.027344	22787.194611		
HLA A*3301	1:73-81 9	TRDKFLSAA	0.841706	-0.248830	-4.620434
	0.592876	-4.027558	41728.595662		
HLA A*0212	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.119587
	0.091985	-4.027602	13170.037234		
HLA B*5301	1:101-109 9	QSAIPPRGT	0.865514	-0.299140	-4.594070
	0.566374	-4.027696	39270.840639		
HLA B*7301	1:164-172 9	GELSKQTGQ	0.717063	-0.197435	-4.547412
	0.519628	-4.027784	35270.512910		
HLA A*2501	1:216-224 9	VLVPRSAID	1.164467	-0.740753	-4.451539
	0.423714	-4.027825	28283.860743		
HLA A*6802	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.351627
	0.323743	-4.027884	22471.229777		
HLA A*3001	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.263780
	0.235698	-4.028081	18356.065400		
HLA B*4601	1:181-189 9	GLDPVNYQN	1.035268	-0.647889	-4.415575
	0.387379	-4.028196	26036.051587		
HLA A*6901	1:100-108 9	YQSAIPPRG	0.865176	-0.579148	-4.314275
	0.286028	-4.028247	20619.338485		
HLA A*0211	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.474933
	0.446632	-4.028301	29849.187391		
HLA A*0202	1:164-172 9	GELSKQTGQ	0.717063	-0.197435	-4.547964
	0.519628	-4.028336	35315.381673		
HLA A*3002	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.481492
	0.452621	-4.028871	30303.463923		
HLA B*5401	1:133-141 9	DWDQAYRKP	0.647933	-0.108321	-4.568543
	0.539612	-4.028931	37029.090353		

HLA A*8001	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.416318
	0.387379	-4.028939	26080.598934			
HLA A*6802	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.320473
	0.291433	-4.029039	20915.712785			
HLA B*3501	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.282860
	0.253787	-4.029072	19180.492926			
HLA B*5401	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.320541
	0.291433	-4.029108	20918.994441			
HLA A*0250	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.501794
	0.472542	-4.029252	31753.688091			
HLA B*3501	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.413515
	0.384238	-4.029277	25912.816823			
HLA A*2501	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.461573
	0.432006	-4.029567	28944.985794			
HLA B*1801	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.476211
	0.446632	-4.029579	29937.162334			
HLA B*7301	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.594643
	0.564800	-4.029843	39322.712886			
HLA B*1517	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.353638
	0.323743	-4.029895	22575.532330			
HLA A*0250	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.414147
	0.384238	-4.029909	25950.554165			
HLA A*0250	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.594822
	0.564800	-4.030022	39338.883805			
HLA A*2603	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.567819
	0.537766	-4.030053	36967.442159			
HLA A*0212	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.431096
	0.400567	-4.030529	26983.347184			
HLA A*0211	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.503103
	0.472542	-4.030561	31849.516049			
HLA A*2402	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.568458
	0.537766	-4.030692	37021.879417			

HLA A*8001	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.432433
	0.401614	-4.030819	27066.536021			
HLA B*0801	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.431556
	0.400567	-4.030989	27011.973834			
HLA B*0803	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.477794
	0.446632	-4.031162	30046.520423			
HLA B*1501	1:38-469		GQACQIQMS	0.965607	-1.010502	-3.986324
0.044895	-4.031219		9690.009738			-
HLA A*2501	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.465828
	0.434427	-4.031401	29229.962493			
HLA A*0101	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.310048
	0.278445	-4.031603	20419.636395			
HLA B*7301	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.569544
	0.537766	-4.031778	37114.526478			
HLA A*3301	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.610167
	0.578083	-4.032084	40753.650786			
HLA A*1101	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.455855
	0.423714	-4.032141	28566.346139			
HLA A*0301	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.367570
	0.335272	-4.032299	23311.512148			
HLA B*0702	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.432879
	0.400567	-4.032312	27094.371447			
HLA A*0250	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.593744
	0.561410	-4.032333	39241.321065			
HLA A*0201	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.190494
	0.157927	-4.032568	15505.810076			
HLA B*1801	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.464576
	0.432006	-4.032570	29145.800145			
HLA A*0301	1:89-979		APYELNITS	1.361001	-1.037258	-4.356967
	0.323743	-4.033225	22749.257157			
HLA A*3301	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.613308
	0.579719	-4.033589	41049.491451			

HLA B*0702	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.421472
	0.387379	-4.034094	26392.001713			
HLA B*5301	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.599688
	0.564800	-4.034887	39782.110247			
HLA B*0802	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.481687
	0.446632	-4.035055	30317.073864			
HLA B*7301	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.622534
	0.587095	-4.035439	41930.902376			
HLA A*3101	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.193897
	0.157927	-4.035970	15627.752135			
HLA B*7301	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.467990
	0.432006	-4.035983	29375.805518			
HLA B*0801	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.322296
	0.286028	-4.036268	21003.703060			
HLA B*2705	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.460060
	0.423714	-4.036346	28844.317835			
HLA B*0801	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.423761
	0.387379	-4.036382	26531.434323			
HLA A*3301	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.574410
	0.537766	-4.036644	37532.691355			
HLA A*2403	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.381754
	0.344471	-4.037283	24085.423486			
HLA B*4001	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.328891
	0.291433	-4.037458	21325.090073			
HLA B*2705	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.439126
	0.401614	-4.037512	27486.937886			
HLA A*3101	1:89-979		APYELNITS	1.361001	-1.037258	-4.361295
	0.323743	-4.037552	22977.087144			
HLA A*0203	1:89-979		APYELNITS	1.361001	-1.037258	-4.361572
	0.323743	-4.037830	22991.759639			
HLA B*5701	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.329558
	0.291433	-4.038125	21357.879305			

HLA B*4801	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.439744
	0.401614	-4.038130	27526.074159			
HLA A*0250	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.557855
	0.519628	-4.038227	36128.941356			
HLA A*3201	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.599935
	0.561410	-4.038524	39804.714431			
HLA A*0216	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.471319
	0.432006	-4.039313	29601.860287			
HLA B*4403	1:53-619		NISLPSYYP	0.515820	0.118220	-4.673814
	0.634040	-4.039774	47186.098334			
HLA A*2902	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.325827
	0.286028	-4.039800	21175.181708			
HLA A*0219	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.441429
	0.401614	-4.039815	27633.052131			
HLA B*4402	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.441596
	0.401614	-4.039982	27643.668084			
HLA B*4801	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.427447
	0.387379	-4.040068	26757.594696			
HLA B*0803	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.513025
	0.472542	-4.040483	32585.524273			
HLA B*1501	1:89-979		APYELNITS	1.361001	-1.037258	-4.364742
	0.323743	-4.040999	23160.165894			
HLA B*2705	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.199916
	0.157927	-4.041989	15845.862936			
HLA A*2602	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.629117
	0.587095	-4.042022	42571.354237			
HLA B*5101	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.320766
	0.278445	-4.042321	20929.861529			
HLA A*2603	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.656332
	0.613638	-4.042693	45324.346447			
HLA A*3301	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.463843
	0.421102	-4.042741	29096.646868			

HLA B*1517	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.444375
	0.401614	-4.042761	27821.152097			
HLA A*3002	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.607688
	0.564800	-4.042887	40521.714563			
HLA B*5401	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.563005
	0.519628	-4.043377	36559.925936			
HLA A*2501	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.427666
	0.384238	-4.043428	26771.060356			
HLA A*2403	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.008536
	0.035101	-4.043637	10198.498696			-
HLA B*1502	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.445317
	0.401614	-4.043703	27881.571859			
HLA A*0101	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.367700
	0.323743	-4.043957	23318.449378			
HLA B*4501	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.631176
	0.587095	-4.044080	42773.581367			
HLA B*4501	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.622201
	0.578083	-4.044118	41898.703248			
HLA A*3001	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.278436
	0.234162	-4.044274	18986.096495			
HLA A*1101	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.476330
	0.432006	-4.044324	29945.423267			
HLA B*3901	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.491167
	0.446632	-4.044535	30986.138222			
HLA B*5801	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.350920
	0.305553	-4.045367	22434.667928			
HLA B*1509	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.331473
	0.286028	-4.045445	21452.255371			
HLA A*0201	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.369657
	0.323743	-4.045914	23423.769648			
HLA A*0301	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.351519
	0.305553	-4.045966	22465.638397			

HLA B*4403	1:73-819		TRDKFLSAA	0.841706	-0.248830	-4.639068
	0.592876	-4.046192	43557.960298			
HLA B*1502	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.565839
	0.519628	-4.046211	36799.234638			
HLA A*3002	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.586112
	0.539612	-4.046500	38557.821836			
HLA B*4601	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.381930
	0.335272	-4.046659	24095.197929			
HLA B*5101	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.468180
	0.421102	-4.047078	29388.680846			
HLA A*6901	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.382436
	0.335272	-4.047164	24123.239989			
HLA A*0202	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.353027
	0.305553	-4.047475	22543.800559			
HLA A*2501	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.449109
	0.401614	-4.047495	28126.087454			
HLA B*1501	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.338991
	0.291433	-4.047558	21826.862382			
HLA B*4501	1:18-269		SGVATAAPK	0.424227	0.140104	-4.611964
	0.564331	-4.047633	40922.661917			
HLA B*4402	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.435193
	0.387379	-4.047815	27239.135693			
HLA B*0802	1:91-999		YELNITSAT	0.787532	-0.429583	-4.406116
	0.357949	-4.048167	25475.111690			
HLA A*0250	1:91-999		YELNITSAT	0.787532	-0.429583	-4.406492
	0.357949	-4.048543	25497.172041			
HLA A*3201	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.613345
	0.564800	-4.048545	41053.044776			
HLA B*7301	1:18-269		SGVATAAPK	0.424227	0.140104	-4.613139
	0.564331	-4.048808	41033.505295			
HLA A*6801	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.613959
	0.564800	-4.049158	41111.051841			

HLA A*3301	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.384456
	0.335272	-4.049184	24235.734964		
HLA B*5101	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.502041
	0.452621	-4.049420	31771.730528		
HLA B*7301	1:133-141	9 DWDQAYRKP	0.647933	-0.108321	-4.589115
	0.539612	-4.049503	38825.328064		
HLA A*0202	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.004655
0.044895	-4.049550	10107.759396			
HLA A*2603	1:152-160	9 TDPLPVVFP	0.730366	-0.165566	-4.614497
	0.564800	-4.049696	41162.014430		
HLA B*0802	1:216-224	9 VLVPRSAID	1.164467	-0.740753	-4.473464
	0.423714	-4.049750	29748.432326		
HLA A*8001	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.380260
	0.330347	-4.049913	24002.695425		
HLA B*1801	1:94-102	9 NITSATYQS	1.243610	-0.899139	-4.394954
	0.344471	-4.050483	24828.683563		
HLA B*4601	1:94-102	9 NITSATYQS	1.243610	-0.899139	-4.395078
	0.344471	-4.050607	24835.803566		
HLA A*2603	1:133-141	9 DWDQAYRKP	0.647933	-0.108321	-4.590379
	0.539612	-4.050767	38938.494578		
HLA B*1502	1:152-160	9 TDPLPVVFP	0.730366	-0.165566	-4.615763
	0.564800	-4.050963	41282.215156		
HLA A*6801	1:120-128	9 AGGTHPTTT	0.991249	-0.369291	-4.673217
	0.621958	-4.051259	47121.303885		
HLA A*3001	1:146-154	9 TLWQADTDP	0.196026	0.057761	-4.305084
	0.253787	-4.051296	20187.546624		
HLA B*0803	1:22-30 9	TAAPKTYCE	1.011561	-0.590459	-4.472776
	0.421102	-4.051674	29701.315512		
HLA B*4601	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.375589
	0.323743	-4.051847	23745.933002		
HLA B*3501	1:181-189	9 GLDPVNYQN	1.035268	-0.647889	-4.439829
	0.387379	-4.052450	27531.435550		

HLA A*6802	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.439899
	0.387379	-4.052521	27535.904173			
HLA A*0101	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.387802
	0.335272	-4.052530	24423.160369			
HLA A*2602	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.614114
	0.561410	-4.052703	41125.733273			
HLA A*2602	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.622912
	0.570132	-4.052780	41967.439773			
HLA B*0803	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.476812
	0.423714	-4.053098	29978.651980			
HLA A*3301	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.640315
	0.587095	-4.053220	43683.267017			
HLA A*3001	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.306855
	0.253524	-4.053331	20270.060941			
HLA A*6801	1:73-81	9	TRDKFLSAA	0.841706	-0.248830	-4.646377
	0.592876	-4.053501	44297.251710			
HLA A*0211	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.438165
	0.384238	-4.053928	27426.186295			
HLA B*1502	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.615549
	0.561410	-4.054139	41261.896927			
HLA B*4002	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.641699
	0.587095	-4.054604	43822.682459			
HLA A*6802	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.088132
	0.033425	-4.054707	12249.887425			
HLA A*2902	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.346371
	0.291433	-4.054938	22200.923618			
HLA B*1509	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.412962
	0.357949	-4.055013	25879.894170			
HLA B*5301	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.592877
	0.537766	-4.055111	39163.063750			
HLA B*1503	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.476291
	0.421102	-4.055189	29942.669369			

HLA B*3901	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.479448
	0.423714	-4.055734	30161.172649			
HLA A*3001	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.300967
	0.245175	-4.055793	19997.110432			
HLA B*1501	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.290047
	0.234162	-4.055885	19500.549019			
HLA B*4501	1:195-203	9	DGVIFFNP	0.675455	-0.114045	-4.617671
	0.561410	-4.056261	41463.959803			
HLA B*5801	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.342313
	0.286028	-4.056286	21994.469026			
HLA A*0101	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.361983
	0.305553	-4.056431	23013.536948			
HLA B*5101	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.490895
	0.434427	-4.056468	30966.699060			
HLA A*2301	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.529431
	0.472542	-4.056889	33840.063287			
HLA B*4402	1:89-979		APYELNITS	1.361001	-1.037258	-4.380678
	0.323743	-4.056936	24025.820199			
HLA B*4403	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.670809
	0.613638	-4.057171	46860.732947			
HLA B*3501	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.343596
	0.286028	-4.057569	22059.532322			
HLA B*4001	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.402068
	0.344471	-4.057597	25238.755364			
HLA A*0202	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.597219
	0.539612	-4.057606	39556.559209			
HLA B*5101	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.481577
	0.423714	-4.057863	30309.366279			
HLA B*5401	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.530803
	0.472542	-4.058261	33947.145814			
HLA A*1101	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.403083
	0.344471	-4.058612	25297.809135			

HLA A*0301	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.350071	
	0.291433	-4.058638	22390.896451			
HLA A*0203	1:143-151 9	TYDTLWQAD	1.156171	-0.755604	-4.459534	
	0.400567	-4.058967	28809.385024			
HLA B*3901	1:178-186 9	PNAGLDPVN	1.201582	-0.769576	-4.491203	
	0.432006	-4.059196	30988.652798			
HLA A*3001	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.236039	
	0.176828	-4.059211	17220.241070			
HLA A*8001	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.337704	
	0.278445	-4.059259	21762.249869			
HLA A*6901	1:127-135 9	TTYKAFDWD	0.819008	-0.722128	-4.156272	
	0.096880	-4.059392	14330.847074			
HLA A*3301	1:101-109 9	QSAIPPRGT	0.865514	-0.299140	-4.625772	
	0.566374	-4.059398	42244.658053			
HLA A*0211	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.512059	
	0.452621	-4.059438	32513.152007			
HLA B*1503	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-3.863460	-
	0.196092	-4.059553	7302.309646			
HLA A*2902	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.338033	
	0.278445	-4.059588	21778.738503			
HLA A*3301	1:152-160 9	TDPLPVVFP	0.730366	-0.165566	-4.624900	
	0.564800	-4.060100	42159.955146			
HLA A*6802	1:175-183 9	SIAPNAGLD	0.851313	-0.682744	-4.228904	
	0.168569	-4.060335	16939.626913			
HLA A*3101	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.351895	
	0.291433	-4.060461	22485.092674			
HLA A*6801	1:176-184 9	IAPNAGLDP	0.476515	0.093617	-4.631056	
	0.570132	-4.060923	42761.781578			
HLA B*5701	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.418935	
	0.357949	-4.060985	26238.251280			
HLA B*2705	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.391563	
	0.330347	-4.061216	24635.613766			

HLA B*4002	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.639368
	0.578083	-4.061286	43588.133142			
HLA A*6901	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.315259
	0.253524	-4.061735	20666.130250			
HLA A*0250	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.601408
	0.539612	-4.061795	39939.961291			
HLA A*6901	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.297814
	0.235698	-4.062116	19852.455723			
HLA B*4001	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.386698
	0.323743	-4.062955	24361.139753			
HLA B*5701	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.393370
	0.330347	-4.063023	24738.316447			
HLA A*0219	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.386972
	0.323743	-4.063230	24376.564189			
HLA B*3801	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.535796
	0.472542	-4.063254	34339.654512			
HLA B*0801	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.334755
	0.271476	-4.063279	21614.997457			
HLA A*0201	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.398558
	0.335272	-4.063286	25035.588436			
HLA B*1509	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.281899
	0.218305	-4.063593	19138.100228			
HLA A*0216	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.293256
	0.229395	-4.063861	19645.190077			
HLA A*2601	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.387983
	0.323743	-4.064240	24433.336236			
HLA B*4002	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.645968
	0.581216	-4.064752	44255.573409			
HLA A*0101	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.351091
	0.286028	-4.065064	22443.529619			
HLA A*2902	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.233711
	0.168569	-4.065142	17128.166945			

HLA B*4801	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.059370
	-0.005967	-4.065337	11464.884983			
HLA A*3301	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.635628
	0.570132	-4.065495	43214.340412			
HLA B*5401	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.396091
	0.330347	-4.065744	24893.779835			
HLA B*4002	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.635915
	0.570132	-4.065782	43242.871571			
HLA B*0802	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.396258
	0.330347	-4.065910	24903.343425			
HLA B*5701	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.410484
	0.344471	-4.066013	25732.607122			
HLA B*4501	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.647488
	0.581216	-4.066272	44410.748103			
HLA B*1801	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.487664
	0.421102	-4.066562	30737.204863			
HLA B*2705	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.487937
	0.421102	-4.066835	30756.499962			
HLA B*5101	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.498857
	0.432006	-4.066851	31539.682583			
HLA B*4501	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.631711
	0.564800	-4.066911	42826.373195			
HLA B*5801	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.338402
	0.271476	-4.066926	21797.244189			
HLA B*0802	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.498965
	0.432006	-4.066959	31547.532364			
HLA B*1801	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.539708
	0.472542	-4.067166	34650.365019			
HLA A*3201	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.586963
	0.519628	-4.067335	38633.406686			
HLA A*2603	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.637637
	0.570132	-4.067504	43414.689404			

HLA B*1517	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.499790
	0.432006	-4.067784	31607.493973			
HLA B*5401	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.489436
	0.421102	-4.068334	30862.839717			
HLA A*2501	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.469148
	0.400567	-4.068581	29454.257577			
HLA B*3901	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.413061
	0.344471	-4.068590	25885.775147			
HLA A*0202	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.541555
	0.472542	-4.069012	34798.018061			
HLA B*4002	1:101-109	9	QSAIPPRGT	0.865514	-0.299140	-4.635470
	0.566374	-4.069097	43198.679670			
HLA B*2705	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.469820
	0.400567	-4.069253	29499.865311			
HLA A*6802	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.355684
	0.286028	-4.069657	22682.159559			
HLA A*2403	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.375606
	0.305553	-4.070053	23746.832259			
HLA B*1801	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.493787
	0.423714	-4.070073	31173.612282			
HLA B*4501	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.163466
	0.093374	-4.070092	14570.215818			
HLA B*4002	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.631596
	0.561410	-4.070186	42815.022089			
HLA A*6801	1:40-489		ACQIQMSDP	0.533748	0.079890	-4.683907
	0.613638	-4.070269	48295.587778			
HLA A*0219	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.341808
	0.271476	-4.070332	21968.901556			
HLA B*4403	1:115-123	9	KVYQNAGGT	0.678003	-0.098284	-4.650098
	0.579719	-4.070380	44678.477652			
HLA B*3901	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.361861
	0.291433	-4.070428	23007.063823			

HLA B*4002	1:18-269		SGVATAAPK	0.424227	0.140104	-4.634775
	0.564331	-4.070444	43129.559806			
HLA A*2603	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.657553
	0.587095	-4.070458	45452.029797			
HLA A*2603	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.590302
	0.519628	-4.070674	38931.543652			
HLA A*3002	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.415171
	0.344471	-4.070700	26011.836285			
HLA A*0301	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.357094
	0.286028	-4.071067	22755.903960			
HLA A*3101	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.357205
	0.286028	-4.071177	22761.690721			
HLA A*2501	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.342835
	0.271476	-4.071359	22020.900151			
HLA B*3901	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.505788
	0.434427	-4.071361	32047.067787			
HLA A*3001	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.290002
	0.218305	-4.071697	19498.544702			
HLA A*6801	1:84-929		STPREAPYE	0.746095	-0.647795	-4.170045
	0.098300	-4.071745	14792.600983			
HLA A*0212	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.377351
	0.305553	-4.071799	23842.475875			
HLA B*5301	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.544362
	0.472542	-4.071820	35023.709640			
HLA A*0206	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.163898
	0.091985	-4.071913	14584.726517			
HLA A*0203	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.407359
	0.335272	-4.072087	25548.121585			
HLA A*1101	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.232919
	0.160477	-4.072443	17096.968473			
HLA A*0203	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.164664
	0.092119	-4.072546	14610.471184			

HLA B*5301	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.612342
	0.539612	-4.072730	40958.320762			
HLA B*1509	1:74-82 9		RDKFLSAAT	0.783794	-0.331173	-4.525533
	0.452621	-4.072912	33537.707366			
HLA A*0219	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.473817
	0.400567	-4.073249	29772.582481			
HLA B*7301	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.327298
	0.253787	-4.073511	21247.014946			
HLA B*1509	1:80-88 9		AATSSTPRE	1.057554	-0.585012	-4.546105
	0.472542	-4.073563	35164.582186			
HLA B*5801	1:60-68 9		YPDQKSLEN	1.087218	-0.808773	-4.352482
	0.278445	-4.074037	22515.523712			
HLA A*2301	1:26-34 9		KTYCEELKG	0.984658	-0.550231	-4.508471
	0.434427	-4.074044	32245.670427			
HLA A*1101	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.475689
	0.401614	-4.074075	29901.229522			
HLA A*2402	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.593774
	0.519628	-4.074146	39244.080948			
HLA A*3201	1:89-97 9		APYELNITS	1.361001	-1.037258	-4.397923
	0.323743	-4.074181	24999.046396			
HLA B*4001	1:60-68 9		YPDQKSLEN	1.087218	-0.808773	-4.352740
	0.278445	-4.074296	22528.926413			
HLA A*0206	1:22-30 9		TAAPKTYCE	1.011561	-0.590459	-4.495606
	0.421102	-4.074504	31304.417787			
HLA B*1509	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.476408
	0.401614	-4.074794	29950.769791			
HLA A*2501	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.380554
	0.305553	-4.075001	24018.932404			
HLA B*4001	1:59-67 9		YYPDQKSLE	0.890200	-0.554928	-4.410409
	0.335272	-4.075137	25728.152770			
HLA A*6801	1:45-53 9		MSDPAYNIN	0.920513	-0.629080	-4.366656
	0.291433	-4.075223	23262.505892			

HLA B*0801	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.252328
	0.176828	-4.075500	17878.381754			
HLA B*1509	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.496867
	0.421102	-4.075765	31395.492806			
HLA B*4801	1:77-859		FLSAATSST	0.627583	-0.297236	-4.406299
	0.330347	-4.075952	25485.863726			
HLA A*3001	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.244612
	0.168569	-4.076043	17563.557939			
HLA B*4403	1:152-160	9	TDPLPVVFP	0.730366	-0.165566	-4.641177
	0.564800	-4.076377	43770.083211			
HLA A*8001	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.421150
	0.344471	-4.076679	26372.448401			
HLA B*5401	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.508993
	0.432006	-4.076987	32284.420593			
HLA A*3301	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.616684
	0.539612	-4.077072	41369.854276			
HLA B*5701	1:89-979		APYELNITS	1.361001	-1.037258	-4.400879
	0.323743	-4.077136	25169.761172			
HLA B*1509	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.511751
	0.434427	-4.077324	32490.118246			
HLA A*2501	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.421806
	0.344471	-4.077335	26412.283951			
HLA A*2501	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.464776
	0.387379	-4.077397	29159.205648			
HLA B*4403	1:195-203	9	DGVIFFFNP	0.675455	-0.114045	-4.638844
	0.561410	-4.077434	43535.579895			
HLA B*1517	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.464834
	0.387379	-4.077456	29163.149617			
HLA A*3001	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.235492
	0.157927	-4.077565	17198.548558			
HLA A*1101	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.369114
	0.291433	-4.077681	23394.515611			

HLA A*2301	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.478410
	0.400567	-4.077843	30089.138285			
HLA B*4402	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.422429
	0.344471	-4.077957	26450.176301			
HLA A*2601	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.383702
	0.305553	-4.078149	24193.684330			
HLA B*0802	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.478734
	0.400567	-4.078167	30111.610161			
HLA B*5401	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.462414
	0.384238	-4.078177	29001.099035			
HLA B*1801	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.349658
	0.271476	-4.078182	22369.587318			
HLA B*0802	1:89-979		APYELNITS	1.361001	-1.037258	-4.402051
	0.323743	-4.078309	25237.799610			
HLA B*4801	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.413693
	0.335272	-4.078421	25923.473109			
HLA B*4001	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.349966
	0.271476	-4.078490	22385.446162			
HLA B*3801	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.462757
	0.384238	-4.078520	29024.014423			
HLA B*5101	1:91-999		YELNITSAT	0.787532	-0.429583	-4.436558
	0.357949	-4.078609	27324.886956			
HLA B*3901	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.480736
	0.401614	-4.079122	30250.721716			
HLA A*2301	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.463547
	0.384238	-4.079309	29076.820012			
HLA B*4801	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.423787
	0.344471	-4.079315	26533.013223			
HLA A*3101	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.172808
	0.093374	-4.079433	14887.011953			
HLA B*4801	1:89-979		APYELNITS	1.361001	-1.037258	-4.403461
	0.323743	-4.079718	25319.852927			

HLA A*1101	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.464141
	0.384238	-4.079904	29116.644761			
HLA A*3301	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.503749
	0.423714	-4.080035	31896.934459			
HLA B*1501	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.416019
	0.335272	-4.080747	26062.686259			
HLA B*4001	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.386315
	0.305553	-4.080762	24339.667278			
HLA A*6901	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.241239
	0.160477	-4.080762	17427.642289			
HLA B*4403	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.658921
	0.578083	-4.080838	45595.363563			
HLA A*2601	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.372699
	0.291433	-4.081266	23588.448223			
HLA A*2602	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.527939
	0.446632	-4.081307	33724.012655			
HLA B*4403	1:18-269		SGVATAAPK	0.424227	0.140104	-4.645757
	0.564331	-4.081426	44234.031057			
HLA B*4403	1:165-173	9	ELSKQTGQQ	0.723302	-0.142086	-4.662898
	0.581216	-4.081682	46014.887132			
HLA A*0250	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.528421
	0.446632	-4.081789	33761.434252			
HLA A*8001	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.417199
	0.335272	-4.081927	26133.562571			
HLA B*0801	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.417408
	0.335272	-4.082136	26146.148392			
HLA B*3901	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.210193
	0.127871	-4.082321	16225.292787			
HLA B*1502	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.621987
	0.539612	-4.082375	41878.081596			
HLA A*2402	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.503646
	0.421102	-4.082544	31889.342772			

HLA B*0803	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.483351
	0.400567	-4.082784	30433.417033			
HLA A*3201	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.622750
	0.539612	-4.083138	41951.776992			
HLA B*1509	1:89-979		APYELNITS	1.361001	-1.037258	-4.407204
	0.323743	-4.083461	25539.001188			
HLA B*4403	1:101-109	9	QSAIPRGT	0.865514	-0.299140	-4.649870
	0.566374	-4.083497	44655.038359			
HLA B*5301	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.603254
	0.519628	-4.083627	40110.154499			
HLA B*0802	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.471070
	0.387379	-4.083691	29584.890018			
HLA A*3101	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.389259
	0.305553	-4.083706	24505.216391			
HLA A*3001	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.174697
	0.090830	-4.083867	14951.904794			
HLA B*3801	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.536498
	0.452621	-4.083877	34395.245804			
HLA B*5101	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.468349
	0.384238	-4.084112	29400.130321			
HLA A*1101	1:89-979		APYELNITS	1.361001	-1.037258	-4.408022
	0.323743	-4.084279	25587.127257			
HLA A*2603	1:97-105	9	SATYQSAIP	0.500068	0.078015	-4.662372
	0.578083	-4.084289	45959.159366			
HLA B*1517	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.468946
	0.384238	-4.084708	29440.557157			
HLA A*0206	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.261691
	0.176828	-4.084863	18267.995846			
HLA B*4403	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.672186
	0.587095	-4.085091	47009.526338			
HLA A*2403	1:89-979		APYELNITS	1.361001	-1.037258	-4.408971
	0.323743	-4.085228	25643.111517			

HLA A*0201	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.390856
	0.305553	-4.085304	24595.530352			
HLA A*6901	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.339341
	0.253787	-4.085554	21844.463530			
HLA B*4601	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.391653
	0.305553	-4.086100	24640.678772			
HLA A*2602	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.606104
	0.519628	-4.086476	40374.230688			
HLA A*0301	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.365169
	0.278445	-4.086724	23182.980619			
HLA A*0201	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.358473
	0.271476	-4.086997	22828.282583			
HLA B*3501	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.422302
	0.335272	-4.087030	26442.450433			
HLA A*6802	1:50-58	9	YNINISLPS	0.643875	-0.954020	-3.776910
	0.310145	-4.087055	5982.874821			-
HLA B*1801	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.521699
	0.434427	-4.087272	33242.908287			
HLA B*5401	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.539978
	0.452621	-4.087357	34671.929009			
HLA A*2603	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.358967
	0.271476	-4.087491	22854.232001			
HLA B*4501	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.560327
	0.472542	-4.087785	36335.144725			
HLA B*0802	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.432266
	0.344471	-4.087795	27056.141704			
HLA A*2301	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.508913
	0.421102	-4.087811	32278.482864			
HLA A*1101	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.488416
	0.400567	-4.087849	30790.462107			
HLA A*0250	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.432350
	0.344471	-4.087879	27061.411563			

HLA B*4601	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.373916
	0.286028	-4.087889	23654.643371			
HLA A*2301	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.540706
	0.452621	-4.088085	34730.124895			
HLA B*4402	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.374405
	0.286028	-4.088378	23681.275904			
HLA B*1509	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.512193
	0.423714	-4.088479	32523.179428			
HLA A*0216	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.423763
	0.335272	-4.088491	26531.577855			
HLA A*3101	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.180509
	0.091985	-4.088524	15153.367257			
HLA B*4601	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.360139
	0.271476	-4.088663	22916.011143			
HLA A*0206	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.342581
	0.253787	-4.088794	22008.037801			
HLA B*1801	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.473053
	0.384238	-4.088815	29720.281902			
HLA A*3101	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.053759
	0.035101	-4.088860	11317.724866			
HLA B*1509	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.216851
	0.127871	-4.088980	16475.969636			
HLA B*1501	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.324753
	0.235698	-4.089055	21122.894559			
HLA B*4501	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.659466
	0.570132	-4.089333	45652.625971			
HLA B*1502	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.477075
	0.387379	-4.089697	29996.821777			
HLA A*6802	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.319195
	0.229395	-4.089799	20854.248755			
HLA A*6802	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.425831
	0.335272	-4.090559	26658.187940			

HLA B*0702	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.435081
	0.344471	-4.090609	27232.063297			
HLA B*4402	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.421017
	0.330347	-4.090669	26364.317350			
HLA B*1517	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.448632
	0.357949	-4.090683	28095.216129			
HLA A*0201	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.382567
	0.291433	-4.091134	24130.549323			
HLA B*5701	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.427024
	0.335272	-4.091752	26731.551367			
HLA A*0301	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.345563
	0.253787	-4.091775	22159.646078			
HLA B*1509	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.538599
	0.446632	-4.091967	34561.999299			
HLA A*0301	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.363447
	0.271476	-4.091971	23091.231730			
HLA A*6802	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.252488
	0.160477	-4.092011	17884.959928			
HLA B*0803	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.450040
	0.357949	-4.092090	28186.407013			
HLA A*0212	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.427445
	0.335272	-4.092173	26757.449941			
HLA B*1801	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.493912
	0.401614	-4.092298	31182.551790			
HLA B*4501	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.630485
	0.537766	-4.092719	42705.603743			
HLA B*5101	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.494447
	0.401614	-4.092833	31221.037786			
HLA A*2902	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.398617
	0.305553	-4.093064	25038.974659			
HLA A*3002	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.364627
	0.271476	-4.093150	23154.027305			

HLA B*2705	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.417027
	0.323743		26123.243892			
HLA A*3001	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.263354
	0.169649		18338.100123			
HLA A*2601	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.365468
	0.271476		23198.914096			
HLA A*2601	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.262765
	0.168569		18313.216042			
HLA B*7301	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.566943
	0.472542		36892.921190			
HLA B*0803	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.526539
	0.432006		33615.451636			
HLA A*2602	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.634209
	0.539612		43073.364848			
HLA A*3002	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.452551
	0.357949		28349.886097			
HLA A*6801	1:203-211	9	PGELLPEAA	1.144110	-0.557015	-4.681746
	0.587095		48055.813090			
HLA B*4403	1:176-184	9	IAPNAGLDP	0.476515	0.093617	-4.665029
	0.570132		46241.226417			
HLA A*6802	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.348906
	0.253524		22330.895383			
HLA B*2705	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.439869
	0.344471		27533.967680			
HLA B*5801	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.349188
	0.253787		22345.397010			
HLA A*2403	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.374043
	0.278445		23661.554707			
HLA A*2301	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.520057
	0.423714		33117.437198			
HLA B*0702	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.431657
	0.335272		27018.258232			

HLA B*1503	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.528402
	0.432006	-4.096396	33759.973119			
HLA A*3101	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.326015
	0.229395	-4.096620	21184.348122			
HLA A*3301	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.616364
	0.519628	-4.096737	41339.427810			
HLA A*3001	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.188944
	0.092119	-4.096825	15450.544886			
HLA A*3201	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.441913
	0.344471	-4.097442	27663.864597			
HLA B*3901	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.315839
	0.218305	-4.097534	20693.763672			
HLA B*4001	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.383667
	0.286028	-4.097639	24191.721132			
HLA B*4403	1:29-37	9	CEELKGTDT	0.714161	-0.468986	-4.343831
	0.245175	-4.098657	22071.469513			
HLA A*0216	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.370308
	0.271476	-4.098832	23458.897400			
HLA A*3002	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.385037
	0.286028	-4.099009	24268.141433			
HLA A*2902	1:50-58	9	YNINISLPS	0.643875	-0.954020	-3.789043
	0.310145	-4.099188	6152.372989			
HLA A*6801	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.276187
	0.176828	-4.099359	18888.054476			
HLA B*5701	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.405125
	0.305553	-4.099572	25417.019030			
HLA A*0203	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.391025
	0.291433	-4.099592	24605.112473			
HLA A*2301	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.546336
	0.446632	-4.099704	35183.230305			
HLA A*0301	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.341719
	0.241980	-4.099740	21964.385746			

HLA A*0250	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.192012
	0.092119	-4.099894	15560.094401			
HLA A*1101	1:91-99	9	YELNITSAT	0.787532	-0.429583	-4.458484
	0.357949	-4.100534	28739.801748			
HLA A*3001	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.224271
	0.123229	-4.101042	16759.870421			
HLA A*3001	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.223279
	0.122021	-4.101259	16721.651728			
HLA B*5801	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.354963
	0.253524	-4.101439	22644.519478			
HLA A*0203	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.278309
	0.176828	-4.101481	18980.550820			
HLA A*0211	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.522636
	0.421102	-4.101535	33314.742127			
HLA A*8001	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.373033
	0.271476	-4.101557	23606.575932			
HLA A*0216	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.425396
	0.323743	-4.101653	26631.520986			
HLA A*3201	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.355734
	0.253787	-4.101946	22684.736573			
HLA A*0101	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.373710
	0.271476	-4.102234	23643.384779			
HLA A*2902	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.425997
	0.323743	-4.102255	26668.429374			
HLA B*1517	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.502908
	0.400567	-4.102341	31835.218164			
HLA A*2601	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.380822
	0.278445	-4.102377	24033.750106			
HLA A*1101	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.432877
	0.330347	-4.102529	27094.224870			
HLA A*2402	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.526407
	0.423714	-4.102693	33605.269250			

HLA A*0206	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.534753
	0.432006	-4.102746	34257.269962			
HLA B*5101	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.433102
	0.330347	-4.102755	27108.299893			
HLA A*6802	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.337373
	0.234162	-4.103211	21745.656077			
HLA A*0202	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.263765
	0.160477	-4.103289	18355.469584			
HLA B*5101	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.503958
	0.400567	-4.103391	31912.295897			
HLA A*2402	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.576386
	0.472542	-4.103843	37703.843522			
HLA A*2403	1:23-31	9	AAPKTYCEE	0.685714	-0.594884	-4.194813
	0.090830	-4.103983	15660.759261			
HLA A*6901	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.333482
	0.229395	-4.104086	21551.711656			
HLA A*0219	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.382555
	0.278445	-4.104111	24129.896614			
HLA B*7301	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.556890
	0.452621	-4.104269	36048.699181			
HLA A*3101	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.227616
	0.123229	-4.104387	16889.481737			
HLA A*2902	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.196542
	0.092119	-4.104423	15723.239674			
HLA A*0211	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.536599
	0.432006	-4.104593	34403.247937			
HLA A*2601	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.391260
	0.286028	-4.105233	24618.427167			
HLA A*3101	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.282148
	0.176828	-4.105320	19149.078085			
HLA B*4402	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.440646
	0.335272	-4.105375	27583.316191			

HLA A*2602	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.526609
	0.421102	-4.105508	33620.907755			
HLA B*1509	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.506214
	0.400567	-4.105646	32078.463322			
HLA B*1503	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.196519
	0.090830	-4.105689	15722.389088			
HLA B*2705	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.377370
	0.271476	-4.105894	23843.507779			
HLA B*5801	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.351089
	0.245175	-4.105914	22443.408203			
HLA B*1509	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.493435
	0.387379	-4.106056	31148.325675			
HLA A*3101	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.267123
	0.160477	-4.106646	18497.920709			
HLA A*0201	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.336409
	0.229395	-4.107014	21697.476478			
HLA A*0250	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.442550
	0.335272	-4.107278	27704.451779			
HLA A*0201	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.385831
	0.278445	-4.107386	24312.557358			
HLA A*0212	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.378914
	0.271476	-4.107438	23928.405478			
HLA A*2301	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.540001
	0.432006	-4.107995	34673.804773			
HLA B*1502	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.362167
	0.253787	-4.108379	23023.250051			
HLA A*0201	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.362423
	0.253787	-4.108635	23036.830356			
HLA B*4601	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.400165
	0.291433	-4.108732	25128.400844			
HLA A*3201	1:80-889		AATSSTPRE	1.057554	-0.585012	-4.581305
	0.472542	-4.108763	38133.392708			

HLA A*2902	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.362578
	0.253787	-4.108790	23045.057187			
HLA B*4601	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.387264	
	0.278445	-4.108819	24392.922114			
HLA A*0206	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.509442
	0.400567	-4.108875	32317.796965			
HLA B*5801	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.350906
	0.241980	-4.108926	22433.939725			
HLA B*4002	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.646725
	0.537766	-4.108959	44332.733109			
HLA A*8001	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.432905	
	0.323743	-4.109162	27095.983848			
HLA B*1801	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.496689
	0.387379	-4.109310	31382.587153			
HLA B*1501	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.269806
	0.160477	-4.109329	18612.556341			
HLA A*3001	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.206245
	0.096880	-4.109366	16078.495470			
HLA B*1801	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.439805	
	0.330347	-4.109458	27529.946170			
HLA A*0301	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.345810
	0.235698	-4.110111	22172.237183			
HLA B*2705	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.445425	
	0.335272	-4.110154	27888.511188			
HLA B*4002	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.649878
	0.539612	-4.110265	44655.763101			
HLA B*1503	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.352282
	0.241980	-4.110303	22505.172541			
HLA A*6901	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.150826
	0.040514	-4.110311	14152.258590			
HLA B*0801	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.401908	
	0.291433	-4.110475	25229.472429			

HLA A*2603	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.468563
	0.357949	-4.110614	29414.607565		
HLA A*3201	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.417485
	0.305553	-4.111933	26150.816585		
HLA B*1502	1:80-88 9	AATSSTPRE	1.057554	-0.585012	-4.584787
	0.472542	-4.112245	38440.354376		
HLA A*2601	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.366548
	0.253524	-4.113024	23256.717624		
HLA A*0301	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.366671
	0.253524	-4.113146	23263.260990		
HLA B*5701	1:100-108 9	YQSAIPPRG	0.865176	-0.579148	-4.399209
	0.286028	-4.113181	25073.133373		
HLA B*1502	1:206-214 9	LLPEAAGPT	0.415766	-0.375252	-4.153824
	0.040514	-4.113309	14250.289860		
HLA B*4402	1:187-195 9	YQNFAVTND	0.973541	-0.744146	-4.342910
	0.229395	-4.113515	22024.712661		
HLA A*6801	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.331821
	0.218305	-4.113515	21469.438289		
HLA A*0219	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.449401
	0.335272	-4.114129	28144.961502		
HLA B*5801	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.350184
	0.235698	-4.114486	22396.711555		
HLA A*2602	1:94-102 9	NITSATYQS	1.243610	-0.899139	-4.459076
	0.344471	-4.114605	28779.009211		
HLA B*1501	1:157-165 9	VVFPVQGE	0.697577	-0.605458	-4.207152
	0.092119	-4.115034	16112.105942		
HLA A*6802	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.333743
	0.218305	-4.115437	21564.657295		
HLA A*1101	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.273495
	0.157927	-4.115568	18771.315831		
HLA A*2602	1:127-135 9	TTYKAFDWD	0.819008	-0.722128	-4.212519
	0.096880	-4.115639	16312.425175		

HLA B*1503	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.460215
	0.344471	-4.115744	28854.618615			
HLA A*0212	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.407197	
	0.291433	-4.115764	25538.586702			
HLA A*3002	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.547886
	0.432006	-4.115880	35309.077510			
HLA A*0211	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.516453
	0.400567	-4.115886	32843.740450			
HLA B*0803	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.503361
	0.387379	-4.115983	31868.474948			
HLA A*3002	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.285230
	0.168569	-4.116661	19285.477418			
HLA A*0212	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.395252	
	0.278445	-4.116807	24845.748118			
HLA B*4002	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.180833	
	0.063696	-4.117138	15164.684450			
HLA B*2705	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.395710	
	0.278445	-4.117265	24871.972433			
HLA A*6901	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.351932
	0.234162	-4.117770	22487.039027			
HLA B*3501	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.336325	
	0.218305	-4.118019	21693.251176			
HLA B*4403	1:205-213	9	ELLPEAAGP	0.578973	-0.041207	-4.656057
	0.537766	-4.118291	45295.667161			
HLA B*5401	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.542194
	0.423714	-4.118480	34849.260684			
HLA B*5401	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.520127
	0.401614	-4.118513	33122.812485			
HLA A*2402	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.565176	
	0.446632	-4.118544	36743.136942			
HLA A*2402	1:26-34 9	KTYCEELKG	0.984658	-0.550231	-4.553184	
	0.434427	-4.118757	35742.461657			

HLA B*4501	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.658547
	0.539612	-4.118935	45556.160554			
HLA A*0212	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.353229
	0.234162	-4.119067	22554.291513			
HLA A*3201	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.449591
	0.330347	-4.119244	28157.297356			
HLA B*5801	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.353513
	0.234162	-4.119352	22569.060308			
HLA A*3101	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.398654
	0.278445	-4.120209	25041.142082			
HLA B*5101	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.507628
	0.387379	-4.120249	32183.105266			
HLA A*0301	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.349728
	0.229395	-4.120333	22373.218122			
HLA B*4002	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.504764
	0.384238	-4.120526	31971.567072			
HLA B*5301	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.541834
	0.421102	-4.120732	34820.427431			
HLA B*1503	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.214238
	0.093374	-4.120864	16377.151086			
HLA B*1509	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.456273
	0.335272	-4.121001	28593.867645			
HLA A*3001	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.213050
	0.091985	-4.121065	16332.381513			
HLA A*2402	1:74-82	9	RDKFLSAAT	0.783794	-0.331173	-4.573886
	0.452621	-4.121265	37487.439020			
HLA A*3301	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.521946
	0.400567	-4.121379	33261.796899			
HLA B*5401	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.555912
	0.434427	-4.121485	35967.662304			
HLA A*3201	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-3.997108
	-0.124403	-4.121511	9933.638462			

HLA A*3002	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.568252
	0.446632	-4.121620	37004.258596			
HLA B*4402	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.375335
	0.253524	-4.121811	23732.063065			
HLA B*3801	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.553934
	0.432006	-4.121928	35804.197631			
HLA A*3301	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.524121
	0.401614	-4.122507	33428.841839			
HLA A*2501	1:89-979		APYELNITS	1.361001	-1.037258	-4.446318
	0.323743	-4.122575	27945.902185			
HLA A*0301	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.367782
	0.245175	-4.122607	23322.865054			
HLA A*6801	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.457889
	0.335272	-4.122618	28700.492433			
HLA A*3101	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.394590
	0.271476	-4.123113	24807.872623			
HLA B*1801	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.368381
	0.245175	-4.123207	23355.061656			
HLA B*5401	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.300286
	0.176828	-4.123458	19965.762206			
HLA B*5101	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-3.907974
	-0.215742	-4.123715	8090.466941			
HLA B*4801	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.395339
	0.271476	-4.123863	24850.721887			
HLA B*3801	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.547748
	0.423714	-4.124034	35297.809235			
HLA A*8001	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.415476
	0.291433	-4.124043	26030.136469			
HLA A*2602	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.558558
	0.434427	-4.124131	36187.429264			
HLA A*2403	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.395647
	0.271476	-4.124171	24868.339724			

HLA B*5101	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.415629
	0.291433	-4.124196	26039.291388			
HLA B*5801	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.353652
	0.229395	-4.124257	22576.265129			
HLA A*6801	1:164-172	9	GELSKQTGQ	0.717063	-0.197435	-4.644124
	0.519628	-4.124496	44068.028989			
HLA A*0301	1:43-51	9	IQMSDPAYN	0.678035	-0.520108	-4.283158
	0.157927	-4.125232	19193.675525			
HLA A*3201	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.548977
	0.423714	-4.125263	35397.821288			
HLA B*0702	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.431009
	0.305553	-4.125456	26977.946579			
HLA B*1501	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.166093
	0.040514	-4.125578	14658.607252			
HLA A*0101	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.379459
	0.253787	-4.125671	23958.456737			
HLA B*1503	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.431610
	0.305553	-4.126058	27015.335074			
HLA B*4801	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.431718
	0.305553	-4.126166	27022.058809			
HLA A*8001	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.412201
	0.286028	-4.126174	25834.571518			
HLA A*0202	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.558205
	0.432006	-4.126199	36158.075678			
HLA A*2301	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.513814
	0.387379	-4.126435	32644.809587			
HLA A*0219	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.380610
	0.253787	-4.126823	24022.051161			
HLA A*0101	1:29-37	9	CEELKGTDT	0.714161	-0.468986	-4.372159
	0.245175	-4.126984	23559.115971			
HLA A*3002	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.527859
	0.400567	-4.127292	33717.810158			

HLA B*2705	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.082442	-
0.044895	-4.127336		12090.427159				
HLA A*2402	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.511700	
0.384238	-4.127462		32486.251581				
HLA B*7301	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.361697	
0.234162	-4.127535		22998.352876				
HLA B*3501	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.304480	
0.176828	-4.127651		20159.498542				
HLA A*0203	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.288482	
0.160477	-4.128006		19430.415232				
HLA B*1517	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.414238	
0.286028	-4.128211		25956.029938				
HLA B*1517	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.472736	
0.344471	-4.128265		29698.584063				
HLA A*3001	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.294917	
0.166493	-4.128424		19720.472714				
HLA B*4403	1:133-141	9	DWDQAYRKP	0.647933	-0.108321	-4.668765	
0.539612	-4.129153		46640.696274				
HLA A*3001	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.194897	
0.065526	-4.129372		15663.809585				
HLA B*3501	1:50-589		YNINISLPS	0.643875	-0.954020	-3.819464	-
0.310145	-4.129609		6598.782115				
HLA A*0101	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.383155	
0.253524	-4.129630		24163.207302				
HLA A*3201	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.514150	
0.384238	-4.129912		32670.073845				
HLA A*2501	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.421641	
0.291433	-4.130208		26402.283717				
HLA A*0212	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.384249	
0.253787	-4.130462		24224.199798				
HLA B*3801	1:22-309		TAAPKYCE	1.011561	-0.590459	-4.551685	
0.421102	-4.130584		35619.308873				

HLA B*4402	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.436220
	0.305553	-4.130667	27303.608501			
HLA B*1503	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.518182
	0.387379	-4.130803	32974.774356			
HLA B*3901	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.436450
	0.305553	-4.130898	27318.087870			
HLA A*6801	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.565383
	0.434427	-4.130956	36760.633420			
HLA A*2601	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.384745
	0.253787	-4.130958	24251.867186			
HLA B*3801	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.565484
	0.434427	-4.131057	36769.185866			
HLA A*3002	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.436720
	0.305553	-4.131168	27335.088758			
HLA A*2301	1:91-999		YELNITSAT	0.787532	-0.429583	-4.489166
	0.357949	-4.131216	30843.644767			
HLA A*3301	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.476037
	0.344471	-4.131566	29925.179935			
HLA B*0802	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.410106
	0.278445	-4.131661	25710.203981			
HLA B*1501	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.410113
	0.278445	-4.131668	25710.621253			
HLA A*0301	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.223820
	0.092119	-4.131701	16742.471003			
HLA A*2602	1:74-829		RDKFLSAAT	0.783794	-0.331173	-4.584604
	0.452621	-4.131983	38424.137070			
HLA B*1517	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.437677
	0.305553	-4.132124	27395.342146			
HLA B*3801	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.519911
	0.387379	-4.132532	33106.331038			
HLA B*1503	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.533329
	0.400567	-4.132762	34145.145069			

HLA B*4801	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.424365
	0.291433	-4.132931	26568.347732		
HLA A*2601	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.369027
	0.235698	-4.133329	23389.833296		
HLA B*5301	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.580037
	0.446632	-4.133405	38022.154658		
HLA A*2301	1:113-121 9	VLKVYQNAG	0.952015	-0.550401	-4.535056
	0.401614	-4.133442	34281.185622		
HLA A*0203	1:146-154 9	TLWQADTDP	0.196026	0.057761	-4.387351
	0.253787	-4.133563	24397.805234		
HLA A*3001	1:167-175 9	SKQTGQQVS	1.053333	-0.925462	-4.261444
	0.127871	-4.133573	18257.621871		
HLA A*0250	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.586251
	0.452621	-4.133630	38570.130819		
HLA A*0301	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.367845
	0.234162	-4.133684	23326.272004		
HLA A*0219	1:187-195 9	YQNFAVTND	0.973541	-0.744146	-4.363200
	0.229395	-4.133805	23078.118750		
HLA B*0801	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.387959
	0.253524	-4.134435	24432.014455		
HLA A*6901	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.352863
	0.218305	-4.134557	22535.265012		
HLA A*6901	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.311401
	0.176828	-4.134573	20483.365186		
HLA A*0206	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.426044
	0.291433	-4.134611	26671.314995		
HLA A*2402	1:178-186 9	PNAGLDPVN	1.201582	-0.769576	-4.566621
	0.432006	-4.134615	36865.587954		
HLA B*1502	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.587386
	0.452621	-4.134765	38671.045449		
HLA A*3201	1:22-30 9	TAAPKTYCE	1.011561	-0.590459	-4.556011
	0.421102	-4.134909	35975.835638		

HLA B*1517	1:59-679	YYPDQKSLE	0.890200	-0.554928	-4.470351
	0.335272	-4.135079	29535.954935		
HLA B*1501	1:137-145	9	AYRKPITYD	0.853411	-0.611431
	0.241980	-4.135315	23839.380433		-4.377295
HLA B*0802	1:59-679	YYPDQKSLE	0.890200	-0.554928	-4.470638
	0.335272	-4.135366	29555.455291		
HLA A*0250	1:22-309	TAAPKTYCE	1.011561	-0.590459	-4.556493
	0.421102	-4.135391	36015.755953		
HLA A*0101	1:187-195	9	YQNFAVTND	0.973541	-0.744146
	0.229395	-4.135447	23165.554159		-4.364843
HLA A*2301	1:94-102	9	NITSATYQS	1.243610	-0.899139
	0.344471	-4.135529	30199.541655		-4.480000
HLA A*0211	1:59-679	YYPDQKSLE	0.890200	-0.554928	-4.471601
	0.335272	-4.136329	29621.083660		
HLA B*1517	1:60-689	YPDQKSLEN	1.087218	-0.808773	-4.415018
	0.278445	-4.136573	26002.691018		
HLA B*1502	1:171-179	9	GQQVSIAPN	0.716617	-0.624632
	0.091985	-4.136642	16928.816667		-4.228627
HLA A*3301	1:11-199	AVVLLCCSG	0.891360	-0.444728	-4.583493
	0.446632	-4.136861	38325.940098		
HLA B*4403	1:80-889	AATSSTPRE	1.057554	-0.585012	-4.609997
	0.472542	-4.137455	40737.779841		
HLA B*4402	1:144-152	9	YDTLWQADT	0.627145	-0.460652
	0.166493	-4.138130	20166.152340		-4.304623
HLA A*0211	1:187-195	9	YQNFAVTND	0.973541	-0.744146
	0.229395	-4.138144	23309.872740		-4.367540
HLA A*6801	1:133-141	9	DWDQAYRKP	0.647933	-0.108321
	0.539612	-4.138290	47632.367969		-4.677902
HLA B*4403	1:74-829	RDKFLSAAT	0.783794	-0.331173	-4.591373
	0.452621	-4.138752	39027.702804		
HLA B*0803	1:59-679	YYPDQKSLE	0.890200	-0.554928	-4.474054
	0.335272	-4.138782	29788.854630		

HLA A*0216	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.430332
	0.291433	-4.138899	26935.946369		
HLA A*0201	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.392461
	0.253524	-4.138936	24686.577817		
HLA A*6801	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.585610
	0.446632	-4.138978	38513.208647		
HLA B*1501	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.315807
	0.176828	-4.138978	20692.196418		
HLA A*3301	1:80-88 9	AATSSTPRE	1.057554	-0.585012	-4.611689
	0.472542	-4.139147	40896.767827		
HLA B*5701	1:118-126	9 QNAGGTHPT	0.654006	-0.382530	-4.410947
	0.271476	-4.139471	25760.046220		
HLA B*1801	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.203200
	0.063696	-4.139505	15966.159925		
HLA B*5301	1:26-34 9	KTYCEELKG	0.984658	-0.550231	-4.574384
	0.434427	-4.139957	37530.457896		
HLA B*4001	1:146-154	9 TLWQADTDP	0.196026	0.057761	-4.394232
	0.253787	-4.140445	24787.481416		
HLA A*0206	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.476356
	0.335272	-4.141085	29947.205335		
HLA B*7301	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.588565
	0.446632	-4.141933	38776.209632		
HLA A*0203	1:114-122	9 LKVYQNAGG	0.762278	-0.528116	-4.376184
	0.234162	-4.142022	23778.456359		
HLA B*4501	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.465770
	0.323743	-4.142027	29226.009489		
HLA B*3801	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.589188
	0.446632	-4.142556	38831.839872		
HLA A*0203	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.421038
	0.278445	-4.142593	26365.601033		
HLA B*5101	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.478036
	0.335272	-4.142764	30063.267568		

HLA A*2402	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.428890
	0.286028	-4.142862	26846.622426			
HLA A*0203	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.311545
	0.168569	-4.142975	20490.125879			
HLA A*2902	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.309512
	0.166493	-4.143019	20394.465225			
HLA B*0802	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.434634
	0.291433	-4.143201	27204.086414			
HLA B*0802	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.414960
	0.271476	-4.143484	25999.174464			
HLA B*1503	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.108596
	0.035101	-4.143697	12840.919162			
HLA A*6901	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.385732
	0.241980	-4.143752	24307.033799			
HLA B*0702	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.435557
	0.291433	-4.144124	27261.986181			
HLA B*7301	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.467936
	0.323743	-4.144193	29372.150589			
HLA B*1502	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.528527
	0.384238	-4.144289	33769.654305			
HLA A*0101	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.380150
	0.235698	-4.144451	23996.593160			
HLA A*6802	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.398372
	0.253787	-4.144585	25024.890981			
HLA B*5801	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.363059
	0.218305	-4.144754	23070.628961			
HLA B*4601	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.386829
	0.241980	-4.144850	24368.521171			
HLA B*4601	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.398767
	0.253787	-4.144980	25047.645477			
HLA A*0250	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.579442
	0.434427	-4.145015	37970.149259			

HLA B*4402	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.363729
	0.218305	-4.145424	23106.227118		
HLA B*4001	1:187-195 9	YQNFAVTND	0.973541	-0.744146	-4.374908
	0.229395	-4.145512	23708.707979		
HLA B*1509	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.303535
	0.157927	-4.145609	20115.703799		
HLA B*0801	1:146-154 9	TLWQADTDP	0.196026	0.057761	-4.399507
	0.253787	-4.145720	25090.365937		
HLA A*1101	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.451602
	0.305553	-4.146050	28287.992383		
HLA A*0101	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.380352
	0.234162	-4.146190	24007.760184		
HLA A*3001	1:213-221 9	PTQVLVPRS	1.263904	-1.221578	-4.188582
	0.042326	-4.146256	15437.678044		
HLA A*0201	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.391573
	0.245175	-4.146398	24636.146875		
HLA A*2601	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.391737
	0.245175	-4.146563	24645.478160		
HLA B*4001	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.210296
	0.063696	-4.146600	16229.155436		
HLA A*0216	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.425067
	0.278445	-4.146622	26611.358322		
HLA A*0219	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.452631
	0.305553	-4.147079	28355.101148		
HLA A*8001	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.452892
	0.305553	-4.147339	28372.133434		
HLA B*1509	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.477820
	0.330347	-4.147473	30048.308508		
HLA B*4402	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.439411
	0.291433	-4.147977	27504.936632		
HLA A*3001	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.241415
	0.093374	-4.148041	17434.714845		

HLA B*5301	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.600801
	0.452621	-4.148180	39884.253920		
HLA A*2601	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.390269
	0.241980	-4.148289	24562.288064		
HLA A*0301	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.366645
	0.218305	-4.148339	23261.876663		
HLA B*5701	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.426864
	0.278445	-4.148419	26721.719374		
HLA A*0301	1:175-183 9	SIAPNAGLD	0.851313	-0.682744	-4.317007
	0.168569	-4.148438	20749.478170		
HLA B*1801	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.427128
	0.278445	-4.148683	26737.915172		
HLA A*3201	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.420373
	0.271476	-4.148897	26325.266218		
HLA B*1517	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.325813
	0.176828	-4.148985	21174.494387		
HLA A*3201	1:113-121 9	VLKVYQNAG	0.952015	-0.550401	-4.550908
	0.401614	-4.149294	35555.583400		
HLA A*2602	1:178-186 9	PNAGLDPVN	1.201582	-0.769576	-4.581301
	0.432006	-4.149294	38132.980115		
HLA B*4801	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.308107
	0.157927	-4.150181	20328.593420		
HLA A*0201	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.384811
	0.234162	-4.150649	24255.541062		
HLA A*2603	1:26-34 9	KTYCEELKG	0.984658	-0.550231	-4.585633
	0.434427	-4.151206	38515.292226		
HLA B*1501	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.404883
	0.253524	-4.151358	25402.860140		
HLA B*3901	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.486706
	0.335272	-4.151434	30669.435455		
HLA B*7301	1:187-195 9	YQNFAVTND	0.973541	-0.744146	-4.380857
	0.229395	-4.151461	24035.700484		

HLA A*3101	1:156-164	9	PVWFPIVQG	0.934938	-0.699240	-4.387630
	0.235698	-4.151932	24413.517032			
HLA A*2603	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.573221
	0.421102	-4.152119	37430.089714			
HLA A*6802	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.430626
	0.278445	-4.152181	26954.167590			
HLA A*2902	1:156-164	9	PVWFPIVQG	0.934938	-0.699240	-4.387985
	0.235698	-4.152287	24433.468418			
HLA B*4601	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.382203
	0.229395	-4.152808	24110.323547			
HLA B*0802	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.458477
	0.305553	-4.152924	28739.335314			
HLA A*6801	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.321542
	0.168569	-4.152973	20967.260219			
HLA B*5701	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.406774
	0.253787	-4.152987	25513.729840			
HLA A*6901	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.321638
	0.168569	-4.153069	20971.911387			
HLA A*0216	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.458669
	0.305553	-4.153117	28752.087225			
HLA A*0202	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.488463
	0.335272	-4.153191	30793.793747			
HLA B*2705	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.444678
	0.291433	-4.153245	27840.574580			
HLA A*0216	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.313751
	0.160477	-4.153274	20594.478205			
HLA A*1101	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.424858
	0.271476	-4.153382	26598.548566			
HLA A*2601	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.382861
	0.229395	-4.153465	24146.872792			
HLA A*3101	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.245806
	0.092119	-4.153687	17611.892912			

HLA A*2601	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.387917
	0.234162	-4.153755	24429.635430			
HLA A*3101	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.407542
	0.253524	-4.154018	25558.904435			
HLA A*3101	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.408026
	0.253787	-4.154239	25587.404106			
HLA B*5401	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.554942
	0.400567	-4.154375	35887.390033			
HLA B*4501	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.601015
	0.446632	-4.154383	39903.893768			
HLA A*0219	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.446243
	0.291433	-4.154810	27941.064709			
HLA B*4002	1:80-88	9	AATSSTPRE	1.057554	-0.585012	-4.627527
	0.472542	-4.154985	42415.722042			
HLA A*1101	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.490540
	0.335272	-4.155268	30941.412902			
HLA B*4402	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.433762
	0.278445	-4.155318	27149.540696			
HLA B*0801	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.324986
	0.169649	-4.155337	21134.210568			
HLA B*1502	1:89-97	9	APYELNITS	1.361001	-1.037258	-4.479838
	0.323743	-4.156096	30188.270802			
HLA A*6901	1:29-37	9	CEELKGTDT	0.714161	-0.468986	-4.401549
	0.245175	-4.156374	25208.598305			
HLA B*5301	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.588420
	0.432006	-4.156413	38763.205763			
HLA B*4801	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.374915
	0.218305	-4.156610	23709.092767			
HLA B*4402	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.398602
	0.241980	-4.156623	25038.161924			
HLA B*7301	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.253686
	0.096880	-4.156806	17934.373446			

HLA A*3301	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.398847
	0.241980	-4.156867	25052.253070			
HLA B*5101	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.462447
	0.305553	-4.156895	29003.295617			
HLA B*1502	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.501472
	0.344471	-4.157001	31730.162412			
HLA B*1801	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.448578
	0.291433	-4.157145	28091.720530			
HLA B*4002	1:11-19	9	AVVLLCCSG	0.891360	-0.444728	-4.603788
	0.446632	-4.157156	40159.441825			
HLA B*7301	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.581035
	0.423714	-4.157321	38109.675882			
HLA B*0702	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.410918
	0.253524	-4.157394	25758.373966			
HLA B*4801	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.435950
	0.278445	-4.157505	27286.627192			
HLA A*0206	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.463244
	0.305553	-4.157691	29056.535085			
HLA A*0201	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.399688
	0.241980	-4.157708	25100.819794			
HLA B*4801	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.411240
	0.253524	-4.157716	25777.471985			
HLA B*0702	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.443804
	0.286028	-4.157777	27784.602355			
HLA B*0801	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.376106
	0.218305	-4.157801	23774.211657			
HLA B*4402	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.429524
	0.271476	-4.158048	26885.865137			
HLA A*0203	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.393955
	0.235698	-4.158257	24771.662958			
HLA B*0801	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.392538
	0.234162	-4.158377	24690.985415			

HLA B*0803	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.437209
	0.278445	-4.158764	27365.865068		
HLA A*2403	1:146-154 9	TLWQADTDP	0.196026	0.057761	-4.412627
	0.253787	-4.158839	25859.880860		
HLA A*1101	1:100-108 9	YQSAIPPRG	0.865176	-0.579148	-4.444951
	0.286028	-4.158923	27858.051336		
HLA B*5801	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.335843
	0.176828	-4.159015	21669.206104		
HLA B*5401	1:181-189 9	GLDPVNYQN	1.035268	-0.647889	-4.546463
	0.387379	-4.159084	35193.510025		
HLA B*1503	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.430605
	0.271476	-4.159129	26952.855250		
HLA B*2705	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.464731
	0.305553	-4.159178	29156.208589		
HLA A*2603	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.489960
	0.330347	-4.159612	30900.095278		
HLA A*0211	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.431474
	0.271476	-4.159998	27006.859706		
HLA B*3801	1:143-151 9	TYDTLWQAD	1.156171	-0.755604	-4.560663
	0.400567	-4.160096	36363.264983		
HLA A*0201	1:197-205 9	VIFFNPGE	0.720374	-0.559897	-4.320755
	0.160477	-4.160278	20929.295396		
HLA A*0250	1:178-186 9	PNAGLDPVN	1.201582	-0.769576	-4.592458
	0.432006	-4.160452	39125.369428		
HLA B*0702	1:146-154 9	TLWQADTDP	0.196026	0.057761	-4.414292
	0.253787	-4.160505	25959.259782		
HLA B*5101	1:94-102 9	NITSATYQS	1.243610	-0.899139	-4.505121
	0.344471	-4.160650	31997.868205		
HLA B*1801	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.496557
	0.335272	-4.161285	31373.081120		
HLA A*2603	1:80-88 9	AATSSTPRE	1.057554	-0.585012	-4.633946
	0.472542	-4.161403	43047.274275		

HLA B*4801	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.395917
	0.234162	-4.161755	24883.816058			
HLA A*3301	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.614473	
	0.452621	-4.161852	41159.787671			
HLA A*2402	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.563487
	0.401614	-4.161873	36600.494383			
HLA B*4601	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.416019	
	0.253524	-4.162495	26062.686259			
HLA A*0101	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.404561
	0.241980	-4.162581	25384.039663			
HLA B*7301	1:22-30 9	TAAPKTYCE	1.011561	-0.590459	-4.584148	
	0.421102	-4.163046	38383.831382			
HLA B*0803	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.449302
	0.286028	-4.163274	28138.567262			
HLA B*1509	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.455185	
	0.291433	-4.163752	28522.335958			
HLA A*6802	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.286140	
	0.122021	-4.164119	19325.896312			
HLA B*3801	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.487878	
	0.323743	-4.164135	30752.340512			
HLA B*1501	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.409873	
	0.245175	-4.164698	25696.437822			
HLA A*2902	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.406685
	0.241980	-4.164705	25508.485374			
HLA A*3101	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.410176	
	0.245175	-4.165001	25714.377000			
HLA B*1503	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.500314	
	0.335272	-4.165042	31645.648430			
HLA A*3301	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.552710
	0.387379	-4.165331	35703.423714			
HLA B*1502	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.597406
	0.432006	-4.165400	39573.682642			

HLA A*2601	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.383714
	0.218305	-4.165408	24194.338764		
HLA B*0803	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.489542
	0.323743	-4.165799	30870.354036		
HLA B*1801	1:145-153	9 DTLWQADTD	1.026181	-0.950003	-4.242106
	0.076178	-4.165927	17462.466952		
HLA A*0203	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.411572
	0.245175	-4.166397	25797.142397		
HLA B*5701	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.420009
	0.253524	-4.166484	26303.200871		
HLA A*2602	1:118-126	9 QNAGGTHPT	0.654006	-0.382530	-4.438022
	0.271476	-4.166546	27417.137058		
HLA A*6802	1:217-225	9 LVPRSAIDS	0.966010	-0.900484	-4.232383
	0.065526	-4.166858	17075.893137		
HLA B*1801	1:173-181	9 QVSIAPNAG	0.868398	-0.562845	-4.472447
	0.305553	-4.166894	29678.828713		
HLA A*2403	1:187-195	9 YQNFAVTND	0.973541	-0.744146	-4.396295
	0.229395	-4.166900	24905.499108		
HLA B*1509	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.445456
	0.278445	-4.167011	27890.472616		
HLA A*0216	1:157-165	9 VVFPIVQGE	0.697577	-0.605458	-4.259339
	0.092119	-4.167220	18169.336562		
HLA A*0202	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.459238
	0.291433	-4.167805	28789.753912		
HLA B*7301	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.325841
	0.157927	-4.167915	21175.869051		
HLA A*8001	1:146-154	9 TLWQADTDP	0.196026	0.057761	-4.421775
	0.253787	-4.167988	26410.426478		
HLA A*2902	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.326027
	0.157927	-4.168100	21184.921155		
HLA A*0202	1:146-154	9 TLWQADTDP	0.196026	0.057761	-4.422029
	0.253787	-4.168242	26425.861755		

HLA B*4601	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.413439
	0.245175	-4.168265	25908.331276			
HLA B*4801	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.404114
	0.235698	-4.168416	25357.961348			
HLA B*5701	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.404145
	0.235698	-4.168447	25359.744800			
HLA B*5801	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.326391
	0.157927	-4.168464	21202.692857			
HLA A*2602	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.404448
	0.235698	-4.168750	25377.448926			
HLA B*5301	1:77-859		FLSAATSST	0.627583	-0.297236	-4.499142
	0.330347	-4.168794	31560.335110			
HLA B*1502	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.615535
	0.446632	-4.168903	41260.557615			
HLA B*0802	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.455093
	0.286028	-4.169066	28516.318788			
HLA B*1517	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.440750
	0.271476	-4.169274	27589.882771			
HLA A*2501	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.447895
	0.278445	-4.169450	28047.531152			
HLA A*2501	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.455857
	0.286028	-4.169829	28566.500681			
HLA A*0201	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.405665
	0.235698	-4.169967	25448.664462			
HLA B*0702	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.415150
	0.245175	-4.169975	26010.569826			
HLA B*4601	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.404410
	0.234162	-4.170249	25375.252394			
HLA B*5701	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.415429
	0.245175	-4.170255	26027.320218			
HLA B*4801	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.424308
	0.253787	-4.170521	26564.898393			

HLA B*4601	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.406619
	0.235698	-4.170921	25504.621721			
HLA A*6801	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.594658
	0.423714	-4.170944	39323.989296			
HLA B*1503	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.263105
	0.092119	-4.170987	18327.587186			
HLA B*3801	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.572688
	0.401614	-4.171073	37384.152098			
HLA B*0803	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.515614
	0.344471	-4.171143	32780.369550			
HLA A*0206	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.268035
	0.096880	-4.171155	18536.789308			
HLA B*4001	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.424698
	0.253524	-4.171174	26588.765492			
HLA B*1502	1:22-30	9	TAAPKTYCE	1.011561	-0.590459	-4.592421
	0.421102	-4.171319	39121.982952			
HLA A*2501	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.425149
	0.253787	-4.171362	26616.397556			
HLA A*3201	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.571969
	0.400567	-4.171401	37322.316594			
HLA B*4402	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.425278
	0.253787	-4.171491	26624.318282			
HLA A*6801	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.555788
	0.384238	-4.171550	35957.350986			
HLA A*0211	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.450373
	0.278445	-4.171928	28208.068250			
HLA B*5101	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.458054
	0.286028	-4.172026	28711.363145			
HLA B*5401	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.477778
	0.305553	-4.172225	30045.382606			
HLA B*3501	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.213012
	0.040514	-4.172497	16330.967872			

HLA B*0803	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.478450
	0.305553	-4.172897	30091.905654			
HLA B*5701	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.415072
	0.241980	-4.173093	26005.926668			
HLA A*6802	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.418439
	0.245175	-4.173265	26208.317755			
HLA A*2402	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.560703
	0.387379	-4.173324	36366.609398			
HLA B*5301	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.597047
	0.423714	-4.173333	39540.940542			
HLA B*5701	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.407683
	0.234162	-4.173521	25567.202032			
HLA A*6901	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.340032
	0.166493	-4.173539	21879.234956			
HLA A*0301	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.350555
	0.176828	-4.173727	22415.863608			
HLA B*5401	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.518405
	0.344471	-4.173934	32991.725750			
HLA A*0201	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.392320
	0.218305	-4.174015	24678.566018			
HLA B*1502	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.460110
	0.286028	-4.174082	28847.594957			
HLA B*4402	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.408454
	0.234162	-4.174292	25612.609866			
HLA B*1517	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.403689
	0.229395	-4.174294	25333.143240			
HLA B*1502	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.608797
	0.434427	-4.174370	40625.317668			
HLA B*7301	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.575021
	0.400567	-4.174453	37585.520902			
HLA B*4402	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.332406
	0.157927	-4.174479	21498.378450			

HLA B*5701	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.404220
	0.229395	-4.174825	25364.135369			
HLA B*0801	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.404274
	0.229395	-4.174879	25367.291560			
HLA B*1501	1:50-589		YNINISLPS	0.643875	-0.954020	-3.864870
	0.310145	-4.175015	7326.050968			-
HLA A*3201	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.140028
	0.035101	-4.175129	13804.717458			-
HLA B*3801	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.519721
	0.344471	-4.175250	33091.826988			
HLA A*0203	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.394056
	0.218305	-4.175751	24777.426142			
HLA A*0202	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.576564
	0.400567	-4.175997	37719.348704			
HLA A*6901	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.334231
	0.157927	-4.176305	21588.936734			
HLA B*0801	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.412051
	0.235698	-4.176353	25825.628288			
HLA B*7301	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.578827
	0.401614	-4.177213	37916.368836			
HLA B*3901	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.335399
	0.157927	-4.177472	21647.061335			
HLA B*0801	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.423561
	0.245175	-4.178387	26519.236897			
HLA A*6802	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.345187
	0.166493	-4.178694	22140.473380			
HLA B*5801	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.347273
	0.168569	-4.178704	22247.091697			
HLA B*1509	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.484528
	0.305553	-4.178975	30516.014264			
HLA A*2602	1:91-999		YELNITSAT	0.787532	-0.429583	-4.537293
	0.357949	-4.179343	34458.196511			

HLA B*4601	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.356629
	0.176828	-4.179801	22731.541841			
HLA A*0216	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.415695
	0.235698	-4.179997	26043.236038			
HLA A*0203	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.433584
	0.253524	-4.180059	27138.380414			
HLA A*3201	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.612302
	0.432006	-4.180296	40954.554075			
HLA A*6801	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.567784
	0.387379	-4.180405	36964.442434			
HLA A*0212	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.416259
	0.235698	-4.180560	26077.071844			
HLA A*0206	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.414727
	0.234162	-4.180565	25985.253580			
HLA A*2601	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.279176
	0.098300	-4.180876	19018.478572			
HLA A*8001	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.341630
	0.160477	-4.181153	21959.870864			
HLA A*3301	1:26-34	9	KTYCEELKG	0.984658	-0.550231	-4.615617
	0.434427	-4.181190	41268.370881			
HLA A*0219	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.417067
	0.235698	-4.181369	26125.646508			
HLA B*4001	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.415538
	0.234162	-4.181376	26033.798050			
HLA A*8001	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.410839
	0.229395	-4.181443	25753.636504			
HLA A*2403	1:29-37	9	CEELKGTDT	0.714161	-0.468986	-4.427464
	0.245175	-4.182289	26758.608005			
HLA B*1503	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.359227
	0.176828	-4.182399	22867.960036			
HLA B*3501	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.411917
	0.229395	-4.182521	25817.665830			

HLA B*1502	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.583131
	0.400567	-4.182564	38294.023176			
HLA B*1517	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.436131	
	0.253524	-4.182606	27297.996117			
HLA A*0202	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.351310
	0.168569	-4.182741	22454.824242			
HLA B*2705	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.401208	
	0.218305	-4.182903	25188.831580			
HLA B*1503	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.343415
	0.160477	-4.182939	22050.345085			
HLA A*2403	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.417105
	0.234162	-4.182943	26127.907996			
HLA B*0801	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.425098
	0.241980	-4.183118	26613.229926			
HLA A*0212	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.401521	
	0.218305	-4.183215	25206.961850			
HLA B*2705	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.417666
	0.234162	-4.183504	26161.712276			
HLA B*5301	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.541905	
	0.357949	-4.183955	34826.079129			
HLA B*1509	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.528703
	0.344471	-4.184232	33783.358842			
HLA A*0212	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.344745
	0.160477	-4.184269	22117.966657			
HLA A*3002	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.426636
	0.241980	-4.184657	26707.700583			
HLA B*4001	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.403066	
	0.218305	-4.184761	25296.851145			
HLA A*0212	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.140042	-
	0.044895	-4.184936	13805.165557			
HLA B*1517	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.261599
	0.076178	-4.185421	18264.141967			

HLA B*3501	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.439054
	0.253524	-4.185529	27482.328532		
HLA B*0702	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.419720
	0.234162	-4.185558	26285.704113		
HLA B*4801	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.427593
	0.241980	-4.185613	26766.571050		
HLA B*1502	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.343634
	0.157927	-4.185707	22061.441839		
HLA A*0101	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.404046
	0.218305	-4.185741	25353.983331		
HLA B*1501	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.404248
	0.218305	-4.185943	25365.782028		
HLA B*4601	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.404309
	0.218305	-4.186004	25369.350157		
HLA B*5301	1:138-146 9	YRKPITYDT	0.544186	-0.159948	-4.570279
	0.384238	-4.186042	37177.425570		
HLA B*4501	1:22-30 9	TAAPKTYCE	1.011561	-0.590459	-4.607152
	0.421102	-4.186050	40471.763675		
HLA A*2603	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.638743
	0.452621	-4.186122	43525.453598		
HLA B*3801	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.544583
	0.357949	-4.186634	35041.524762		
HLA A*0212	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.431942
	0.245175	-4.186767	27035.950081		
HLA A*1101	1:127-135 9	TTYKAFDWD	0.819008	-0.722128	-4.283894
	0.096880	-4.187014	19226.203618		
HLA B*1501	1:175-183 9	SIAPNAGLD	0.851313	-0.682744	-4.355762
	0.168569	-4.187193	22686.209283		
HLA B*5801	1:144-152 9	YDTLWQADT	0.627145	-0.460652	-4.354016
	0.166493	-4.187523	22595.204007		
HLA A*3301	1:138-146 9	YRKPITYDT	0.544186	-0.159948	-4.571825
	0.384238	-4.187588	37310.002141		

HLA A*2501	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.441530
	0.253524	-4.188005	27639.481024		
HLA A*0203	1:144-152 9	YDTLWQADT	0.627145	-0.460652	-4.354660
	0.166493	-4.188167	22628.721931		
HLA A*2603	1:11-19 9	AVVLLCCSG	0.891360	-0.444728	-4.634827
	0.446632	-4.188195	43134.693287		
HLA A*3002	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-4.280374
	0.092119	-4.188255	19071.023835		
HLA B*5701	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.406671
	0.218305	-4.188365	25507.657399		
HLA A*2403	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.286910
	0.098300	-4.188610	19360.219469		
HLA B*1801	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.442792
	0.253524	-4.189267	27719.893517		
HLA B*3501	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.423448
	0.234162	-4.189286	26512.351417		
HLA A*1101	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.467741
	0.278445	-4.189296	29358.964843		
HLA A*3001	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.265495
	0.076178	-4.189316	18428.700856		
HLA A*0211	1:173-181 9	QVSIAPNAG	0.868398	-0.562845	-4.494880
	0.305553	-4.189327	31252.131292		
HLA B*4002	1:194-202 9	NDGVIFFFN	0.826929	-0.753053	-4.263223
	0.073876	-4.189347	18332.545367		
HLA B*1517	1:197-205 9	VIFFNPGE	0.720374	-0.559897	-4.349825
	0.160477	-4.189348	22378.181174		
HLA B*0702	1:187-195 9	YQNFAVTND	0.973541	-0.744146	-4.418855
	0.229395	-4.189460	26233.425559		
HLA B*1502	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.524760
	0.335272	-4.189489	33478.068249		
HLA A*0250	1:143-151 9	TYDTLWQAD	1.156171	-0.755604	-4.590184
	0.400567	-4.189617	38921.014309		

HLA A*3001	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.298146
	0.108361	-4.189784	19867.604842			
HLA B*4001	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.425506
	0.235698	-4.189808	26638.293305			
HLA A*0212	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.281993
	0.092119	-4.189874	19142.242076			
HLA A*3101	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.408184
	0.218305	-4.189878	25596.680263			
HLA B*5801	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.350396
	0.160477	-4.189919	22407.618945			
HLA B*4501	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.621935
	0.432006	-4.189929	41873.097666			
HLA A*2602	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.591765
	0.401614	-4.190151	39062.978373			
HLA A*2602	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.613933
	0.423714	-4.190219	41108.605445			
HLA A*2301	1:77-859		FLSAATSST	0.627583	-0.297236	-4.521133
	0.330347	-4.190785	33199.594981			
HLA B*3501	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.357533
	0.166493	-4.191040	22778.936602			
HLA B*5801	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.360910
	0.169649	-4.191261	22956.710411			
HLA A*2403	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.445688
	0.253524	-4.192164	27905.414169			
HLA A*6901	1:84-929		STPREAPYE	0.746095	-0.647795	-4.290832
	0.098300	-4.192532	19535.816472			
HLA B*0801	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.314660
	0.122021	-4.192639	20637.640530			
HLA B*1517	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.428356
	0.235698	-4.192658	26813.673806			
HLA B*4801	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.437909
	0.245175	-4.192735	27410.018446			

HLA A*8001	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.438593
	0.245175	-4.193419	27453.203412			
HLA A*0101	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.359925
	0.166493	-4.193432	22904.732369			
HLA B*4002	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.625946
	0.432006	-4.193939	42261.573319			
HLA A*0212	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.447467
	0.253524	-4.193943	28019.929149			
HLA A*6802	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.435924
	0.241980	-4.193944	27285.003447			
HLA A*0101	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.362716
	0.168569	-4.194147	23052.413962			
HLA A*6901	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.364002
	0.169649	-4.194353	23120.731915			
HLA A*0203	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.286570
	0.091985	-4.194585	19345.038611			
HLA B*4002	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.629125
	0.434427	-4.194698	42572.045162			
HLA B*1501	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.364918
	0.169649	-4.195269	23169.564845			
HLA A*3301	1:77-859		FLSAATSST	0.627583	-0.297236	-4.525639
	0.330347	-4.195292	33545.872947			
HLA B*1801	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.449133
	0.253787	-4.195345	28127.609086			
HLA A*3101	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.429778
	0.234162	-4.195616	26901.578279			
HLA B*7301	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.583157
	0.387379	-4.195778	38296.302074			
HLA A*6801	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.449481
	0.253524	-4.195956	28150.138856			
HLA A*2403	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.293035
	0.096880	-4.196156	19635.202457			

HLA A*2402	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.554199
	0.357949	-4.196250	35826.092054		
HLA B*5401	1:100-108 9	YQSAIPPRG	0.865176	-0.579148	-4.482961
	0.286028	-4.196933	30406.098826		
HLA B*4601	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.355168
	0.157927	-4.197241	22655.179864		
HLA B*4001	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.439444
	0.241980	-4.197464	27507.019892		
HLA A*0101	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.374720
	0.176828	-4.197892	23698.449281		
HLA A*6801	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.469562
	0.271476	-4.198086	29482.315523		
HLA A*6801	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.556196
	0.357949	-4.198247	35991.214321		
HLA A*0201	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.375199
	0.176828	-4.198371	23724.617739		
HLA A*0219	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.432609
	0.234162	-4.198447	27077.520272		
HLA A*2403	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.434256
	0.235698	-4.198558	27180.402184		
HLA A*0301	1:163-171 9	QGELSKQTG	0.927669	-0.758020	-4.368207
	0.169649	-4.198559	23345.713753		
HLA B*1801	1:100-108 9	YQSAIPPRG	0.865176	-0.579148	-4.484589
	0.286028	-4.198561	30520.306860		
HLA A*2601	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.375469
	0.176828	-4.198641	23739.382299		
HLA B*3801	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.490089
	0.291433	-4.198656	30909.290781		
HLA A*0203	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.440914
	0.241980	-4.198935	27600.332824		
HLA B*3501	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.321213
	0.122021	-4.199192	20951.385953		

HLA B*4403	1:11-199		AVVLLCCSG	0.891360	-0.444728	-4.645869
	0.446632	-4.199237	44245.519006			
HLA A*0212	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.441664
	0.241980	-4.199684	27648.005350			
HLA A*2902	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.429240
	0.229395	-4.199844	26868.271501			
HLA B*4002	1:77-859		FLSAATSST	0.627583	-0.297236	-4.530474
	0.330347	-4.200127	33921.444507			
HLA B*3501	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.436239
	0.235698	-4.200541	27304.790203			
HLA A*0301	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.367380
	0.166493	-4.200887	23301.299257			
HLA B*4501	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.636004
	0.434427	-4.201577	43251.762172			
HLA A*0219	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.455296
	0.253524	-4.201771	28529.589106			
HLA B*4402	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.438093
	0.235698	-4.202394	27421.587129			
HLA B*0702	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.420791
	0.218305	-4.202486	26350.628613			
HLA A*0202	1:89-979		APYELNITS	1.361001	-1.037258	-4.526483
	0.323743	-4.202740	33611.087379			
HLA A*0219	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.448054
	0.245175	-4.202880	28057.850965			
HLA A*2402	1:77-859		FLSAATSST	0.627583	-0.297236	-4.533686
	0.330347	-4.203339	34173.234276			
HLA B*5301	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.603922
	0.400567	-4.203354	40171.827448			
HLA B*4501	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.587853
	0.384238	-4.203616	38712.699875			
HLA A*2402	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.548133
	0.344471	-4.203662	35329.140118			

HLA A*0211	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.439392
	0.235698	-4.203694	27503.746268			
HLA A*2601	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.364436
	0.160477	-4.203960	23143.883409			
HLA A*8001	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.457488
	0.253524	-4.203963	28673.954141			
HLA B*4001	1:43-51	9	IQMSDPAYN	0.678035	-0.520108	-4.362153
	0.157927	-4.204226	23022.502744			
HLA A*3301	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.636286
	0.432006	-4.204279	43279.849757			
HLA A*0250	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.475832
	0.271476	-4.204356	29911.098653			
HLA A*2501	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.433911
	0.229395	-4.204515	27158.795461			
HLA A*2301	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.490747
	0.286028	-4.204719	30956.146694			
HLA B*1501	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.326852
	0.122021	-4.204831	21225.186807			
HLA B*5701	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.301933
	0.096880	-4.205053	20041.622764			
HLA A*0212	1:196-204	9	GVIFFNPGE	0.529052	-0.653455	-4.080844
	-0.124403	-4.205247	12046.031517			
HLA B*5301	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.607063
	0.401614	-4.205449	40463.444515			
HLA A*0202	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.382863
	0.176828	-4.206035	24147.003424			
HLA A*3101	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.302988
	0.096880	-4.206108	20090.363845			
HLA A*8001	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.440329
	0.234162	-4.206168	27563.178484			
HLA B*1517	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.424649
	0.218305	-4.206343	26585.744975			

HLA A*3301	1:91-99 9	YELNITSAT	0.787532	-0.429583	-4.564359
	0.357949	-4.206409	36674.027864		
HLA A*0211	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.498124
	0.291433	-4.206691	31486.492115		
HLA A*2301	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.498404
	0.291433	-4.206971	31506.768914		
HLA A*2403	1:175-183 9	SIAPNAGLD	0.851313	-0.682744	-4.375540
	0.168569	-4.206971	23743.235435		
HLA B*5701	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.384061
	0.176828	-4.207233	24213.718048		
HLA A*0201	1:144-152 9	YDTLWQADT	0.627145	-0.460652	-4.374283
	0.166493	-4.207790	23674.614961		
HLA B*3501	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.283978
	0.076178	-4.207800	19229.948401		
HLA B*0803	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.499412
	0.291433	-4.207979	31579.976079		
HLA B*1517	1:114-122 9	LKVYQNAGG	0.762278	-0.528116	-4.442340
	0.234162	-4.208179	27691.115847		
HLA A*6801	1:74-82 9	RDKFLSAAT	0.783794	-0.331173	-4.660850
	0.452621	-4.208229	45798.326635		
HLA B*5101	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.480036
	0.271476	-4.208560	30201.992397		
HLA A*2902	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.462403
	0.253524	-4.208878	29000.314582		
HLA B*2705	1:146-154 9	TLWQADTDP	0.196026	0.057761	-4.462776
	0.253787	-4.208989	29025.270583		
HLA A*2301	1:89-97 9	APYELNITS	1.361001	-1.037258	-4.532753
	0.323743	-4.209011	34099.918293		
HLA B*4403	1:178-186 9	PNAGLDPVN	1.201582	-0.769576	-4.641058
	0.432006	-4.209051	43758.008521		
HLA A*2902	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.454607
	0.245175	-4.209433	28484.402747		

HLA A*0250	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.495561
	0.286028	-4.209533	31301.200237			
HLA B*0802	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.463493
	0.253787	-4.209705	29073.202283			
HLA B*5801	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.331755
	0.122021	-4.209734	21466.186412			
HLA A*1101	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.463843
	0.253787	-4.210056	29096.646868			
HLA A*6801	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.642399
	0.432006	-4.210393	43893.388042			
HLA B*0702	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.452624
	0.241980	-4.210645	28354.640957			
HLA B*2705	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.452979
	0.241980	-4.210999	28377.813136			
HLA A*6901	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.333059
	0.122021	-4.211038	21530.735244			
HLA B*5401	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.482599
	0.271476	-4.211123	30380.777358			
HLA A*2403	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.369250
	0.157927	-4.211324	23401.857344			
HLA B*0801	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.339595
	0.127871	-4.211724	21857.230281			
HLA A*8001	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.453825
	0.241980	-4.211845	28433.134486			
HLA A*0101	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.381536
	0.169649	-4.211887	24073.308683			
HLA A*0301	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.308829
	0.096880	-4.211949	20362.383932			
HLA B*5301	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.600108
	0.387379	-4.212730	39820.652714			
HLA B*7301	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.557691
	0.344471	-4.213220	36115.262197			

HLA B*4501	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.305340
	0.091985	-4.213355	20199.454285			
HLA A*2602	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.614203
	0.400567	-4.213636	41134.188597			
HLA A*0216	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.371924
	0.157927	-4.213997	23546.374198			
HLA A*0101	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.374546
	0.160477	-4.214070	23688.963937			
HLA A*2602	1:77-859		FLSAATSST	0.627583	-0.297236	-4.544860
	0.330347	-4.214513	35063.901253			
HLA A*2603	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.598821
	0.384238	-4.214583	39702.774458			
HLA B*4002	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.635987
	0.421102	-4.214885	43250.124293			
HLA B*4002	1:89-979		APYELNITS	1.361001	-1.037258	-4.538726
	0.323743	-4.214983	34572.097510			
HLA A*0219	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.433412
	0.218305	-4.215107	27127.664989			
HLA A*8001	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.383993
	0.168569	-4.215424	24209.919533			
HLA A*0202	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.248886
	0.033425	-4.215461	17737.246881			
HLA A*0216	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.460779
	0.245175	-4.215605	28892.107016			
HLA A*1101	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.307743
	0.092119	-4.215625	20311.554372			
HLA B*0801	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.376125
	0.160477	-4.215648	23775.240606			
HLA A*2902	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.434418
	0.218305	-4.216113	27190.550042			
HLA B*0702	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.384898
	0.168569	-4.216329	24260.396680			

HLA B*3901	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.446123
	0.229395	-4.216728	27933.356711			
HLA A*1101	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.393690
	0.176828	-4.216861	24756.524235			
HLA A*2602	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.552155
	0.335272	-4.216884	35657.869032			
HLA A*3001	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.290890
	0.073876	-4.217015	19538.458816			
HLA B*1501	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.310516
	0.093374	-4.217141	20441.631359			
HLA A*2602	1:89-979		APYELNITS	1.361001	-1.037258	-4.540887
	0.323743	-4.217145	34744.595140			
HLA A*0101	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.375676
	0.157927	-4.217750	23750.686603			
HLA B*3501	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.387593
	0.169649	-4.217944	24411.403933			
HLA B*4403	1:26-349		KTYCEELKG	0.984658	-0.550231	-4.652605
	0.434427	-4.218178	44937.123318			
HLA A*0216	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.460291
	0.241980	-4.218311	28859.614257			
HLA B*4002	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.212448
	-0.005967	-4.218415	16309.777937			
HLA A*6901	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.311051
	0.092119	-4.218933	20466.860742			
HLA B*0803	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.464238
	0.245175	-4.219063	29123.103707			
HLA A*0206	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.455204
	0.235698	-4.219506	28523.570406			
HLA A*0219	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.386317
	0.166493	-4.219824	24339.798954			
HLA A*2402	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.511331
	0.291433	-4.219898	32458.671014			

HLA B*0803	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.462508
	0.241980	-4.220529	29007.375424			
HLA B*3801	1:77-85	9	FLSAATSST	0.627583	-0.297236	-4.550920
	0.330347	-4.220572	35556.545172			
HLA B*5401	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.454755
	0.234162	-4.220593	28494.112541			
HLA B*5401	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.555865
	0.335272	-4.220593	35963.770894			
HLA A*3001	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.254083
	0.033425	-4.220659	17950.777826			
HLA A*6801	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.342849
	0.122021	-4.220829	22021.614946			
HLA B*3801	1:59-67	9	YYPDQKSLE	0.890200	-0.554928	-4.556208
	0.335272	-4.220936	35992.187877			
HLA A*6901	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.329495
	0.108361	-4.221134	21354.759852			
HLA A*0101	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.344372
	0.123229	-4.221142	22098.949573			
HLA B*1517	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.318351
	0.096880	-4.221471	20813.785977			
HLA B*1801	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.463538
	0.241980	-4.221558	29076.190810			
HLA B*1517	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.464108
	0.241980	-4.222129	29114.439595			
HLA A*1101	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.451555
	0.229395	-4.222160	28284.931851			
HLA B*3501	1:29-37	9	CEELKGTDT	0.714161	-0.468986	-4.467945
	0.245175	-4.222771	29372.786196			
HLA B*5701	1:43-51	9	IQMSDPAYN	0.678035	-0.520108	-4.380869
	0.157927	-4.222942	24036.350645			
HLA B*1517	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.476735
	0.253787	-4.222947	29973.300479			

HLA A*2902	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.321333
	0.098300	-4.223033	20957.167329		
HLA A*0216	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.476878
	0.253524	-4.223353	29983.193397		
HLA A*2402	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.465347
	0.241980	-4.223367	29197.563636		
HLA B*5801	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-4.315701
	0.092119	-4.223582	20687.159619		
HLA B*0802	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.465643
	0.241980	-4.223663	29217.472825		
HLA B*0802	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.477235
	0.253524	-4.223711	30007.858812		
HLA A*0219	1:197-205 9	VIFFNPGE	0.720374	-0.559897	-4.384228
	0.160477	-4.223752	24223.020375		
HLA B*0803	1:118-126 9	QNAGGTHPT	0.654006	-0.382530	-4.495263
	0.271476	-4.223787	31279.701949		
HLA B*4501	1:143-151 9	TYDTLWQAD	1.156171	-0.755604	-4.624418
	0.400567	-4.223851	42113.224523		
HLA A*0206	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.502356
	0.278445	-4.223911	31794.771005		
HLA B*4001	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.317294
	0.093374	-4.223920	20763.177480		
HLA B*5101	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.477599
	0.253524	-4.224075	30033.031939		
HLA B*2705	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.477646
	0.253524	-4.224122	30036.281622		
HLA A*8001	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.459931
	0.235698	-4.224233	28835.736661		
HLA B*4402	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.401142
	0.176828	-4.224314	25185.016342		
HLA A*2602	1:138-146 9	YRKPITYDT	0.544186	-0.159948	-4.608700
	0.384238	-4.224463	40616.307751		

HLA B*4001	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.394730
	0.169649	-4.225082	24815.926401			
HLA A*3101	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.391756
	0.166493	-4.225263	24646.544817			
HLA B*1501	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.316373
	0.090830	-4.225543	20719.192152			
HLA B*4002	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.627198
	0.401614	-4.225584	42383.609195			
HLA B*4002	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.626303
	0.400567	-4.225736	42296.339436			
HLA A*2501	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.444124
	0.218305	-4.225818	27805.052257			
HLA A*2603	1:178-186	9	PNAGLDPVN	1.201582	-0.769576	-4.657892
	0.432006	-4.225885	45487.451816			
HLA B*2705	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.471479
	0.245175	-4.226304	29612.751999			
HLA A*0216	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.460622
	0.234162	-4.226460	28881.636606			
HLA B*4002	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.650383
	0.423714	-4.226669	44707.733606			
HLA B*1501	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.354676
	0.127871	-4.226805	22629.578880			
HLA A*2902	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.460995
	0.234162	-4.226834	28906.490480			
HLA B*2705	1:156-164	9	PVVFPVQ	0.934938	-0.699240	-4.462739
	0.235698	-4.227040	29022.758316			
HLA B*0803	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.456543
	0.229395	-4.227148	28611.662490			
HLA A*3201	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.456545
	0.229395	-4.227150	28611.817276			
HLA A*3001	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.267762
	0.040514	-4.227247	18525.160248			

HLA B*0802	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.472581
	0.245175	-4.227406	29687.981997			
HLA B*4403	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.628166
	0.400567	-4.227599	42478.182290			
HLA B*0702	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.463418
	0.235698	-4.227719	29068.169669			
HLA A*3002	1:89-979		APYELNITS	1.361001	-1.037258	-4.551465
	0.323743	-4.227722	35601.200005			
HLA B*0801	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.396944
	0.168569	-4.228375	24942.714017			
HLA A*3002	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.482324
	0.253787	-4.228537	30361.553716			
HLA B*5801	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.356420
	0.127871	-4.228548	22720.599689			
HLA A*0201	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.398426
	0.169649	-4.228778	25028.004958			
HLA B*4501	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.652514
	0.423714	-4.228800	44927.643229			
HLA B*4601	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.397395
	0.168569	-4.228826	24968.635442			
HLA B*4001	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.222866
	-0.005967	-4.228833	16705.737944			
HLA B*4403	1:22-309		TAAPKTYCE	1.011561	-0.590459	-4.649983
	0.421102	-4.228881	44666.635647			
HLA B*4501	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.630631
	0.401614	-4.229016	42719.930166			
HLA A*8001	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.447340
	0.218305	-4.229035	28011.744770			
HLA A*3101	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.398750
	0.169649	-4.229102	25046.696960			
HLA A*2501	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.471162
	0.241980	-4.229182	29591.132665			

HLA A*2601	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.398969
	0.169649	-4.229320	25059.301617			
HLA A*0211	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.184677
	0.044895	-4.229572	15299.496384			-
HLA B*2705	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.357912
	0.127871	-4.230040	22798.785520			
HLA A*2601	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.396913
	0.166493	-4.230420	24940.959894			
HLA B*0801	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.388509
	0.157927	-4.230582	24462.962870			
HLA B*7301	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.294316
	0.063696	-4.230620	19693.180112			
HLA A*0201	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.399265
	0.168569	-4.230696	25076.389013			
HLA A*3101	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.321633
	0.090830	-4.230804	20971.684477			
HLA A*2603	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.654687
	0.423714	-4.230973	45153.031248			
HLA A*6901	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.294783
	0.063696	-4.231088	19714.392574			
HLA B*7301	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.391688
	0.160477	-4.231211	24642.678403			
HLA B*4001	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.391704
	0.160477	-4.231228	24643.611620			
HLA A*0202	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.465553
	0.234162	-4.231392	29211.467037			
HLA A*2601	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.389320
	0.157927	-4.231393	24508.663467			
HLA A*0219	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.473401
	0.241980	-4.231421	29744.087379			
HLA A*3101	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.400031
	0.168569	-4.231462	25120.653353			

HLA A*8001	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.323844
	0.092119	-4.231726	21078.717356			
HLA A*3201	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.517768
	0.286028	-4.231741	32943.392681			
HLA A*0216	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.398558
	0.166493	-4.232065	25035.588436			
HLA B*5301	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.576574
	0.344471	-4.232102	37720.164942			
HLA B*4601	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.392635
	0.160477	-4.232158	24696.462617			
HLA B*5701	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.324316
	0.092119	-4.232198	21101.650560			
HLA A*2301	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.538023
	0.305553	-4.232471	34516.220381			
HLA A*1101	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.325978
	0.093374	-4.232603	21182.514522			
HLA B*0803	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.486934
	0.253787	-4.233146	30685.533748			
HLA A*2301	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.487241
	0.253787	-4.233454	30707.288155			
HLA B*5401	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.109381
	-0.124403	-4.233784	12864.142432			
HLA A*2501	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.331081
	0.096880	-4.234201	21432.883052			
HLA B*4601	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.400837
	0.166493	-4.234344	25167.310310			
HLA B*3901	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.488400
	0.253787	-4.234612	30789.296118			
HLA A*0301	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.358022
	0.123229	-4.234793	22804.583186			
HLA A*2403	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.453212
	0.218305	-4.234906	28393.015768			

HLA B*3501	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.393029
	0.157927	-4.235103	24718.918482			
HLA A*3101	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.357195
	0.122021	-4.235175	22761.198173			
HLA A*2602	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.540782
	0.305553	-4.235229	34736.137771			
HLA B*1503	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.488865
	0.253524	-4.235341	30822.293990			
HLA A*0250	1:89-979		APYELNITS	1.361001	-1.037258	-4.559147
	0.323743	-4.235405	36236.600906			
HLA B*1503	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.514171
	0.278445	-4.235726	32671.664557			
HLA A*0301	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.357956
	0.122021	-4.235936	22801.129080			
HLA B*5801	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.332869
	0.096880	-4.235989	21521.302521			
HLA A*2603	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.637660
	0.401614	-4.236046	43417.038154			
HLA B*1502	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.465612
	0.229395	-4.236217	29215.418074			
HLA A*2603	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.636913
	0.400567	-4.236346	43342.410092			
HLA B*4402	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.330136
	0.093374	-4.236762	21386.321992			
HLA B*7301	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.572293
	0.335272	-4.237021	37350.190522			
HLA A*6901	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.360261
	0.123229	-4.237032	22922.458650			
HLA B*5801	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.360271
	0.123229	-4.237041	22922.954687			
HLA A*0212	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.404065
	0.166493	-4.237572	25355.080653			

HLA B*4403	1:216-224	9	VLVPRSAID	1.164467	-0.740753	-4.661312
	0.423714	-4.237599	45847.162136			
HLA A*1101	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.482803
	0.245175	-4.237629	30395.079751			
HLA B*1501	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.404150
	0.166493	-4.237656	25360.019188			
HLA A*0216	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.456240
	0.218305	-4.237935	28591.702072			
HLA A*0301	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.366116
	0.127871	-4.238245	23233.578950			
HLA A*0101	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.360325
	0.122021	-4.238304	22925.807109			
HLA A*3001	1:86-949		PREAPYELN	0.811488	-0.746802	-4.303021
	0.064686	-4.238334	20091.885515			
HLA B*3801	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.517174
	0.278445	-4.238729	32898.333838			
HLA B*4001	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.407538
	0.168569	-4.238968	25558.627895			
HLA B*4002	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.468420
	0.229395	-4.239024	29404.902251			
HLA B*5401	1:156-164	9	PVVFPVQG	0.934938	-0.699240	-4.474921
	0.235698	-4.239222	29848.379998			
HLA A*0216	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.407939
	0.168569	-4.239370	25582.282893			
HLA A*2603	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.336257
	0.096880	-4.239377	21689.848058			
HLA B*1517	1:84-929		STPREAPYE	0.746095	-0.647795	-4.337847
	0.098300	-4.239547	21769.432667			
HLA B*5101	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.493388
	0.253787	-4.239600	31144.955677			
HLA A*0212	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.416459
	0.176828	-4.239630	26089.065897			

HLA B*4001	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.417161
	0.176828	-4.240333	26131.300594			
HLA B*5701	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.400997
	0.160477	-4.240520	25176.570374			
HLA B*4601	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.410359
	0.169649	-4.240711	25725.230021			
HLA B*3501	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.483095
	0.241980	-4.241115	30415.476409			
HLA B*1801	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.315393
	0.073876	-4.241517	20672.503917			
HLA B*3501	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.402183
	0.160477	-4.241707	25245.446656			
HLA A*8001	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.408287
	0.166493	-4.241794	25602.773897			
HLA B*3901	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.333907
	0.091985	-4.241922	21572.825210			
HLA B*0802	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.476105
	0.234162	-4.241943	29929.875168			
HLA B*1509	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.495852
	0.253787	-4.242065	31322.204949			
HLA B*4403	1:138-146	9	YRKPITYDT	0.544186	-0.159948	-4.626528
	0.384238	-4.242291	42318.311718			
HLA A*2403	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.412133
	0.169649	-4.242484	25830.518733			
HLA B*0802	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.461136
	0.218305	-4.242831	28915.874858			
HLA A*6901	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.316850
	0.073876	-4.242974	20741.958623			
HLA A*1101	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.496639
	0.253524	-4.243115	31379.022053			
HLA A*0206	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.488444
	0.245175	-4.243270	30792.461048			

HLA B*5701	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.409896
	0.166493	-4.243403	25697.828008			
HLA B*0802	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.473159
	0.229395	-4.243763	29727.518037			
HLA A*2501	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.477942
	0.234162	-4.243780	30056.762714			
HLA B*5701	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.412380
	0.168569	-4.243811	25845.195627			
HLA B*5101	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.478097
	0.234162	-4.243935	30067.496478			
HLA A*6801	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.549543
	0.305553	-4.243990	35444.002474			
HLA B*5101	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.489372
	0.245175	-4.244198	30858.332004			
HLA A*0216	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.421637
	0.176828	-4.244808	26401.998052			
HLA B*0803	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.498615
	0.253524	-4.245091	31522.112981			
HLA A*6801	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.646807
	0.401614	-4.245193	44341.128135			
HLA B*1502	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.550823
	0.305553	-4.245271	35548.659411			
HLA B*3901	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.499015
	0.253524	-4.245490	31551.116609			
HLA B*5801	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.353911
	0.108361	-4.245549	22589.703987			
HLA B*4402	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.373935
	0.127871	-4.246064	23655.667145			
HLA B*5101	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.482016
	0.235698	-4.246318	30340.044243			
HLA A*2601	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.369572
	0.123229	-4.246343	23419.208172			

HLA B*4403	1:89-979		APYELNITS	1.361001	-1.037258	-4.570120
	0.323743	-4.246377	37163.751534			
HLA A*2601	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.343408
	0.096880	-4.246529	22049.987218			
HLA B*1502	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.525118
	0.278445	-4.246673	33505.608692			
HLA A*3001	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.310372
	0.063696	-4.246676	20434.886667			
HLA A*0201	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.338822
	0.092119	-4.246703	21818.362213			
HLA A*6802	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.320708
	0.073876	-4.246832	20927.031015			
HLA A*2403	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.374750
	0.127871	-4.246879	23700.116017			
HLA B*5101	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.476345
	0.229395	-4.246949	29946.395291			
HLA B*3901	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.481398
	0.234162	-4.247237	30296.907097			
HLA B*5101	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.424083
	0.176828	-4.247254	26551.105512			
HLA A*6802	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.405501
	0.157927	-4.247574	25439.029075			
HLA B*1517	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.416703
	0.168569	-4.248134	26103.748479			
HLA B*1509	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.414908
	0.166493	-4.248415	25996.080290			
HLA A*3201	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.484262
	0.235698	-4.248564	30497.364992			
HLA A*0301	1:84-929		STPREAPYE	0.746095	-0.647795	-4.347022
	0.098300	-4.248722	22234.217514			
HLA B*3801	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.554303
	0.305553	-4.248750	35834.620937			

HLA B*5701	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.418637
	0.169649	-4.248988	26220.230326			
HLA B*0702	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.409490
	0.160477	-4.249013	25673.788384			
HLA B*7301	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.520724
	0.271476	-4.249248	33168.358219			
HLA A*3101	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.377410
	0.127871	-4.249539	23845.700722			
HLA B*0702	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.416797
	0.166493	-4.250304	26109.397825			
HLA A*2501	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.410822
	0.160477	-4.250346	25752.661252			
HLA A*2501	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.495655
	0.245175	-4.250480	31307.974411			
HLA A*2301	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.521995
	0.271476	-4.250519	33265.575909			
HLA B*4002	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.638034
	0.387379	-4.250655	43454.400358			
HLA B*3801	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.537337
	0.286028	-4.251310	34461.738578			
HLA A*2402	1:89-979		APYELNITS	1.361001	-1.037258	-4.575272
	0.323743	-4.251529	37607.283885			
HLA A*1101	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.420206
	0.168569	-4.251637	26315.156569			
HLA A*1101	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.493660
	0.241980	-4.251681	31164.506739			
HLA A*2603	1:89-979		APYELNITS	1.361001	-1.037258	-4.575439
	0.323743	-4.251696	37621.731697			
HLA A*1101	1:84-929		STPREAPYE	0.746095	-0.647795	-4.350041
	0.098300	-4.251741	22389.321787			
HLA A*2501	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.487594
	0.235698	-4.251896	30732.216722			

HLA B*3801	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.523513
	0.271476	-4.252037	33382.035439			
HLA B*4002	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.538155
	0.286028	-4.252127	34526.678785			
HLA B*4403	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.326182
	0.073876	-4.252306	21192.486638			
HLA A*2403	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.316128
	0.063696	-4.252433	20707.538224			
HLA A*0201	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.346124
	0.093374	-4.252750	22188.316222			
HLA A*3201	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.286177
	0.033425	-4.252752	19327.569200			
HLA B*3501	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.421336
	0.168569	-4.252767	26383.721900			
HLA A*0202	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.326856
	0.073876	-4.252981	21225.416460			
HLA B*1517	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.498277
	0.245175	-4.253102	31497.566060			
HLA B*0802	1:156-164	9	PVVFPVQGG	0.934938	-0.699240	-4.488898
	0.235698	-4.253200	30824.628512			
HLA A*8001	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.430765
	0.176828	-4.253936	26962.772287			
HLA A*2602	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.641497
	0.387379	-4.254118	43802.298678			
HLA A*1101	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.488419
	0.234162	-4.254257	30790.628680			
HLA A*0101	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.382215
	0.127871	-4.254343	24110.975727			
HLA A*6801	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.331003
	0.076178	-4.254825	21429.057059			
HLA B*0702	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.295427
	0.040514	-4.254913	19743.637077			

HLA A*0211	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.497161
	0.241980	-4.255181	31416.730754			
HLA A*3101	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.297537
	0.042326	-4.255211	19839.786617			
HLA A*0219	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.432045
	0.176828	-4.255217	27042.386353			
HLA A*0250	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.415704
	0.160477	-4.255228	26043.799608			
HLA B*7301	1:77-859		FLSAATSST	0.627583	-0.297236	-4.585675
	0.330347	-4.255328	38519.042951			
HLA B*5301	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.592061
	0.335272	-4.256790	39089.614574			
HLA B*0702	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.384691
	0.127871	-4.256820	24248.849776			
HLA A*6802	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.380382
	0.123229	-4.257153	24009.448674			
HLA B*1509	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.502330
	0.245175	-4.257155	31792.878993			
HLA A*0203	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.350577
	0.093374	-4.257202	22416.955040			
HLA A*8001	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.415359
	0.157927	-4.257432	26023.096414			
HLA A*6802	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.427344
	0.169649	-4.257695	26751.226207			
HLA A*2603	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.602291
	0.344471	-4.257820	40021.286582			
HLA B*0801	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.424541
	0.166493	-4.258047	26579.129806			
HLA A*2403	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.350062
	0.091985	-4.258077	22390.411927			
HLA B*4801	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.424625
	0.166493	-4.258132	26584.306755			

HLA A*0301	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.351662
	0.093374	-4.258288	22473.053354		
HLA B*3901	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.503610
	0.245175	-4.258436	31886.755110		
HLA B*5801	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.350673
	0.091985	-4.258688	22421.927795		
HLA A*2301	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.537147
	0.278445	-4.258702	34446.640717		
HLA B*4501	1:181-189 9	GLDPVNYQN	1.035268	-0.647889	-4.646433
	0.387379	-4.259054	44303.003521		
HLA B*5101	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.501179
	0.241980	-4.259199	31708.712582		
HLA A*0206	1:144-152 9	YDTLWQADT	0.627145	-0.460652	-4.425708
	0.166493	-4.259215	26650.689667		
HLA B*5801	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.352712
	0.093374	-4.259338	22527.463913		
HLA B*4801	1:197-205 9	VIFFNPGE	0.720374	-0.559897	-4.419903
	0.160477	-4.259426	26296.798268		
HLA B*4402	1:163-171 9	QGELSKQTG	0.927669	-0.758020	-4.429125
	0.169649	-4.259476	26861.150081		
HLA A*2601	1:167-175 9	SKQTGQQVS	1.053333	-0.925462	-4.387609
	0.127871	-4.259738	24412.328391		
HLA A*3101	1:194-202 9	NDGVIFFFN	0.826929	-0.753053	-4.333881
	0.073876	-4.260005	21571.541476		
HLA B*5801	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.359117
	0.098300	-4.260817	22862.146258		
HLA A*0301	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.369224
	0.108361	-4.260863	23400.464769		
HLA B*4001	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.352863
	0.091985	-4.260878	22535.265012		
HLA B*3901	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.502898
	0.241980	-4.260919	31834.529271		

HLA B*4801	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.437834
	0.176828	-4.261006	27405.273732			
HLA B*4601	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.353290
	0.092119	-4.261172	22557.464157			
HLA A*6801	1:143-151	9	TYDTLWQAD	1.156171	-0.755604	-4.661768
	0.400567	-4.261201	45895.304839			
HLA B*1517	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.419189
	0.157927	-4.261262	26253.585931			
HLA B*3501	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.353680
	0.092119	-4.261562	22577.730797			
HLA A*0301	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.353568
	0.091985	-4.261583	22571.868693			
HLA B*4601	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.383742
	0.122021	-4.261721	24195.909480			
HLA A*2601	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.353929
	0.092119	-4.261811	22590.681670			
HLA B*0702	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.419929
	0.157927	-4.262002	26298.363204			
HLA B*4801	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.430819
	0.168569	-4.262249	26966.127405			
HLA A*3301	1:89-979		APYELNITS	1.361001	-1.037258	-4.586042
	0.323743	-4.262299	38551.564537			
HLA B*1509	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.504280
	0.241980	-4.262300	31935.956616			
HLA A*2902	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.439258
	0.176828	-4.262430	27495.266419			
HLA A*2603	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.568071
	0.305553	-4.262518	36988.847258			
HLA A*2402	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.568562
	0.305553	-4.263009	37030.692973			
HLA B*4402	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.385267
	0.122021	-4.263246	24281.011064			

HLA B*5701	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.385455
	0.122021	-4.263434	24291.521944			
HLA A*3301	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.481854
	0.218305	-4.263549	30328.720953			
HLA A*1101	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.499271
	0.235698	-4.263572	31569.727092			
HLA A*2602	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.440705
	0.176828	-4.263877	27587.047011			
HLA B*4601	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.372918
	0.108361	-4.264557	23600.319022			
HLA A*2601	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.355466
	0.090830	-4.264636	22670.750588			
HLA A*2601	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.386998
	0.122021	-4.264978	24378.014852			
HLA A*0202	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.500838
	0.235698	-4.265140	31683.848946			
HLA A*6801	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.423347
	0.157927	-4.265421	26506.184692			
HLA B*1503	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.501212
	0.235698	-4.265513	31711.114242			
HLA A*0201	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.357879
	0.091985	-4.265894	22797.058841			
HLA A*0216	1:84-929		STPREAPYE	0.746095	-0.647795	-4.364222
	0.098300	-4.265923	23132.492481			
HLA A*2501	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.423963
	0.157927	-4.266036	26543.780957			
HLA A*2902	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.388213
	0.122021	-4.266192	24446.293471			
HLA A*6901	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.394131
	0.127871	-4.266260	24781.715893			
HLA A*2403	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.443207
	0.176828	-4.266379	27746.449423			

HLA B*0801	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.357383
	0.090830	-4.266554	22771.051150			
HLA B*4402	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.358732
	0.091985	-4.266747	22841.871458			
HLA B*4402	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.340728
	0.073876	-4.266852	21914.298837			
HLA A*1101	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-4.142494
	-0.124403	-4.266897	13883.356687			
HLA A*2603	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.602766
	0.335272	-4.267494	40065.045654			
HLA A*0201	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.395675
	0.127871	-4.267804	24869.954196			
HLA B*3901	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.503648
	0.235698	-4.267950	31889.515290			
HLA A*0101	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.376466
	0.108361	-4.268104	23793.898028			
HLA A*0301	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.333710
	0.065526	-4.268184	21563.024084			
HLA A*2403	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.434700
	0.166493	-4.268207	27208.207516			
HLA B*4001	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.434820
	0.166493	-4.268326	27215.715415			
HLA B*2705	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.434911
	0.166493	-4.268418	27221.458147			
HLA A*2403	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.309428
	0.040514	-4.268913	20390.493667			
HLA B*1801	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.429804
	0.160477	-4.269327	26903.179207			
HLA A*0101	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.343263
	0.073876	-4.269387	22042.592603			
HLA B*4001	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.377770
	0.108361	-4.269408	23865.446290			

HLA A*0250	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.574964
	0.305553	-4.269412	37580.641215			
HLA A*6801	1:89-979	APYELNITS	1.361001	-1.037258	-4.593159	
	0.323743	-4.269416	39188.496144			
HLA B*4601	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.397475
	0.127871	-4.269603	24973.228501			
HLA A*0206	1:75-839	DKFLSAATS	1.204544	-0.986239	-4.488151	
	0.218305	-4.269845	30771.645112			
HLA A*0212	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.439632
	0.169649	-4.269983	27518.927263			
HLA A*2403	1:39-479	QACQIQMSD	0.891798	-0.769777	-4.392268	
	0.122021	-4.270248	24675.629010			
HLA B*1509	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.504750
	0.234162	-4.270588	31970.529313			
HLA B*1501	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.367495
	0.096880	-4.270616	23307.476891			
HLA A*0301	1:23-319	AAPKTYCEE	0.685714	-0.594884	-4.361793	
	0.090830	-4.270964	23003.454602			
HLA A*2501	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.439556
	0.168569	-4.270987	27514.163696			
HLA B*4801	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.440740
	0.169649	-4.271092	27589.285745			
HLA B*4403	1:113-121	9	VLKVYQNAG	0.952015	-0.550401	-4.672902
	0.401614	-4.271288	47087.156845			
HLA A*0211	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.440066
	0.168569	-4.271497	27546.482803			
HLA A*2902	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.394799
	0.123229	-4.271569	24819.819997			
HLA A*3101	1:84-929	STPREAPYE	0.746095	-0.647795	-4.369936	
	0.098300	-4.271637	23438.854182			
HLA B*2705	1:10-189	TAVVLLCCS	1.085894	-0.909066	-4.448543	
	0.176828	-4.271715	28089.441026			

HLA A*0212	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.346009
	0.073876	-4.272134	22182.435222			
HLA A*2402	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.431122
	0.157927	-4.273195	26984.952978			
HLA A*0201	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.396424
	0.123229	-4.273195	24912.910690			
HLA A*3002	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.366607
	0.093374	-4.273233	23259.863243			
HLA A*2603	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.660779
	0.387379	-4.273400	45790.894322			
HLA A*0201	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.395440
	0.122021	-4.273419	24856.503465			
HLA A*2902	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.347433
	0.073876	-4.273557	22255.277295			
HLA A*0212	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.401455
	0.127871	-4.273583	25203.143867			
HLA B*5801	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.349782
	0.076178	-4.273604	22376.002138			
HLA B*1801	1:156-164	9	PVVFPVQG	0.934938	-0.699240	-4.509324
	0.235698	-4.273626	32309.056362			
HLA B*1501	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.338044
	0.063696	-4.274349	21779.327614			
HLA A*0203	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.444248
	0.169649	-4.274600	27813.025780			
HLA B*4403	1:181-189	9	GLDPVNYQN	1.035268	-0.647889	-4.662071
	0.387379	-4.274693	45927.345236			
HLA A*6901	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.367025
	0.091985	-4.275041	23282.272355			
HLA B*1501	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.398638
	0.123229	-4.275409	25040.193811			
HLA A*3002	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.403602
	0.127871	-4.275731	25328.072917			

HLA B*5801	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.366814
	0.090830	-4.275984	23270.939208			
HLA B*5101	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.494325
	0.218305	-4.276020	31212.256099			
HLA B*0803	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.511728
	0.235698	-4.276029	32488.360614			
HLA A*3201	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.611348
	0.335272	-4.276077	40864.699594			
HLA B*5801	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.350029
	0.073876	-4.276153	22388.716176			
HLA A*6901	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.318553
	0.042326	-4.276227	20823.471853			
HLA A*0219	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.368374
	0.092119	-4.276255	23354.682614			
HLA A*2301	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.518245
	0.241980	-4.276266	32979.591235			
HLA B*0702	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.446010
	0.169649	-4.276362	27926.104067			
HLA A*2403	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.437056
	0.160477	-4.276580	27356.243751			
HLA B*1503	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.521758
	0.245175	-4.276583	33247.404603			
HLA B*0803	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.443508
	0.166493	-4.277015	27765.669545			
HLA B*1509	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.506963
	0.229395	-4.277568	32133.870675			
HLA A*0212	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.371649
	0.093374	-4.278275	23531.475070			
HLA B*4402	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.439448
	0.160477	-4.278972	27507.317513			
HLA B*5401	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.532528
	0.253524	-4.279003	34082.213120			

HLA A*0219	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.447660
	0.168569	-4.279091	28032.361852			
HLA B*0801	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.402810
	0.123229	-4.279581	25281.938547			
HLA B*0802	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.456560
	0.176828	-4.279731	28612.746012			
HLA B*4402	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.448357
	0.168569	-4.279788	28077.438691			
HLA A*8001	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.354510
	0.073876	-4.280634	22620.888479			
HLA B*5301	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.586289
	0.305553	-4.280736	38573.469526			
HLA A*0203	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.408696
	0.127871	-4.280824	25626.885665			
HLA B*3801	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.535021
	0.253787	-4.281233	34278.403874			
HLA B*1501	1:84-929		STPREAPYE	0.746095	-0.647795	-4.379731
	0.098300	-4.281432	23973.496517			
HLA A*0101	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.374957
	0.093374	-4.281583	23711.401623			
HLA A*0301	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.355511
	0.073876	-4.281635	22673.080987			
HLA B*5301	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.573186
	0.291433	-4.281752	37427.052448			
HLA A*3201	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.573411
	0.291433	-4.281978	37446.495212			
HLA B*5401	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.511519
	0.229395	-4.282123	32472.721879			
HLA A*1101	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.374243
	0.091985	-4.282258	23672.437752			
HLA B*0803	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.500673
	0.218305	-4.282368	31671.852790			

HLA B*3901	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.459259
	0.176828	-4.282431	28791.155691			
HLA A*2301	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.536240
	0.253524	-4.282716	34374.783702			
HLA B*1501	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.316859
	0.033425	-4.283434	20742.407475			
HLA B*4801	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.411320
	0.127871	-4.283449	25782.213833			
HLA B*4001	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.411330
	0.127871	-4.283458	25782.771754			
HLA A*2601	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.375563
	0.091985	-4.283579	23744.519952			
HLA A*0211	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.537347
	0.253524	-4.283822	34462.484323			
HLA A*1101	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.502226
	0.218305	-4.283921	31785.312072			
HLA B*4001	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.406617
	0.122021	-4.284596	25504.483744			
HLA A*2301	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.514237
	0.229395	-4.284842	32676.613934			
HLA A*0201	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.393321
	0.108361	-4.284960	24735.506144			
HLA A*2601	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.325677
	0.040514	-4.285162	21167.851432			
HLA B*0801	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.378773
	0.093374	-4.285399	23920.639737			
HLA B*1503	1:50-589		YNINISLPS	0.643875	-0.954020	-3.975300
	0.310145	-4.285445	9447.141708			
HLA A*0101	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.382555
	0.096880	-4.285676	24129.896614			
HLA A*6901	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.319115
	0.033425	-4.285690	20850.413256			

HLA A*2601	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.394192
	0.108361	-4.285831	24785.201863			
HLA B*5801	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.351538
	0.065526	-4.286012	22466.610711			
HLA A*6802	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.362221
	0.076178	-4.286042	23026.114953			
HLA A*1101	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.455730
	0.169649	-4.286082	28558.156653			
HLA B*4601	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.378145
	0.091985	-4.286161	23886.112740			
HLA A*0201	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.383291
	0.096880	-4.286411	24170.790267			
HLA A*3002	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.564887
	0.278445	-4.286442	36718.695590			
HLA A*0250	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.578115
	0.291433	-4.286682	37854.267372			
HLA A*2501	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.463526
	0.176828	-4.286697	29075.404325			
HLA B*1801	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.520860
	0.234162	-4.286698	33178.767206			
HLA B*5301	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.572819
	0.286028	-4.286792	37395.479484			
HLA A*2301	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.522686
	0.235698	-4.286987	33318.527152			
HLA B*5801	1:86-949		PREAPYELN	0.811488	-0.746802	-4.351855
	0.064686	-4.287168	22483.024857			
HLA A*8001	1:84-929		STPREAPYE	0.746095	-0.647795	-4.385955
	0.098300	-4.287655	24319.529354			
HLA A*3301	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.579130
	0.291433	-4.287697	37942.838984			
HLA B*0803	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.522190
	0.234162	-4.288028	33280.516198			

HLA A*0101	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.378911
	0.090830	-4.288082	23928.276028			
HLA B*0802	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.454769
	0.166493	-4.288276	28495.037456			
HLA B*7301	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.593981
	0.305553	-4.288428	39262.768335			
HLA B*5401	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.542248
	0.253787	-4.288460	34853.597158			
HLA A*0101	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.330829
	0.042326	-4.288503	21420.480043			
HLA B*4002	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.560104
	0.271476	-4.288628	36316.475458			
HLA A*3301	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.449377
	0.160477	-4.288901	28143.438932			
HLA B*4501	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.633431
	0.344471	-4.288960	42996.303540			
HLA A*0202	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.507337
	0.218305	-4.289031	32161.523234			
HLA A*0211	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.523292
	0.234162	-4.289130	33365.064002			
HLA B*1501	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.355344
	0.065526	-4.289818	22664.373880			
HLA B*1801	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.466672
	0.176828	-4.289843	29286.786633			
HLA A*2402	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.561577
	0.271476	-4.290101	36439.870120			
HLA B*7301	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.532246
	0.241980	-4.290266	34060.094581			
HLA A*6901	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.381158
	0.090830	-4.290328	24052.350149			
HLA B*4403	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.519801
	0.229395	-4.290405	33097.914334			

HLA B*0802	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.448696
	0.157927	-4.290769	28099.320213			
HLA B*5801	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.354580
	0.063696	-4.290884	22624.560072			
HLA A*6802	1:84-929		STPREAPYE	0.746095	-0.647795	-4.389505
	0.098300	-4.291205	24519.140248			
HLA B*4601	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.414715
	0.123229	-4.291486	25984.550703			
HLA B*1517	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.461247
	0.169649	-4.291598	28923.228081			
HLA B*5701	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.414868
	0.123229	-4.291639	25993.689589			
HLA A*2501	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.458279
	0.166493	-4.291786	28726.278245			
HLA A*2501	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.383991
	0.092119	-4.291872	24209.788561			
HLA A*0250	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.570930
	0.278445	-4.292485	37233.179167			
HLA A*0301	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.368693
	0.076178	-4.292515	23371.872026			
HLA B*2705	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.453047
	0.160477	-4.292571	28382.265589			
HLA B*0801	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.384733
	0.092119	-4.292615	24251.211195			
HLA A*8001	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.462440
	0.169649	-4.292792	29002.824907			
HLA B*4501	1:77-859		FLSAATSST	0.627583	-0.297236	-4.623204
	0.330347	-4.292856	41995.602078			
HLA A*0202	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.571416
	0.278445	-4.292972	37274.897988			
HLA B*1502	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.584407
	0.291433	-4.292974	38406.679930			

HLA B*0702	1:28-369	YCEELKGTD	0.955740	-0.847379	-4.401424	
	0.108361	-4.293063	25201.371428			
HLA A*0219	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.421113
	0.127871	-4.293241	26370.165748			
HLA B*4801	1:39-479	QACQIQMSD	0.891798	-0.769777	-4.415780	
	0.122021	-4.293759	26048.308609			
HLA A*2902	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.463570
	0.169649	-4.293922	29078.393079			
HLA A*2602	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.580201
	0.286028	-4.294174	38036.556080			
HLA B*1801	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.460873
	0.166493	-4.294380	28898.359817			
HLA A*0201	1:84-929	STPREAPYE	0.746095	-0.647795	-4.393039	
	0.098300	-4.294739	24719.453394			
HLA A*0216	1:71-799	AQTRDKFLS	0.986232	-0.892858	-4.388316	
	0.093374	-4.294942	24452.113240			
HLA B*4501	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.581167
	0.286028	-4.295139	38121.223102			
HLA A*0203	1:39-479	QACQIQMSD	0.891798	-0.769777	-4.417264	
	0.122021	-4.295244	26137.521502			
HLA B*1517	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.461792
	0.166493	-4.295299	28959.552250			
HLA B*0702	1:10-189	TAVVLLCCS	1.085894	-0.909066	-4.472289	
	0.176828	-4.295461	29668.073198			
HLA A*0101	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.387682
	0.092119	-4.295563	24416.422842			
HLA B*4001	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.418984
	0.123229	-4.295755	26241.232316			
HLA A*0212	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.464470
	0.168569	-4.295901	29138.705609			
HLA B*3501	1:30-389	EELKGTDTG	0.811906	-0.748210	-4.359836	
	0.063696	-4.296140	22900.024194			

HLA B*5701	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.424198
	0.127871	-4.296326	26558.144733			
HLA B*4001	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.393229
	0.096880	-4.296349	24730.287857			
HLA B*1503	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.418707
	0.122021	-4.296686	26224.486127			
HLA A*0201	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.370599
	0.073876	-4.296723	23474.639524			
HLA A*8001	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.424668
	0.127871	-4.296796	26586.895608			
HLA A*2402	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.575284
	0.278445	-4.296839	37608.301155			
HLA A*6901	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.390631
	0.093374	-4.297256	24582.759996			
HLA A*0101	1:84-929		STPREAPYE	0.746095	-0.647795	-4.395663
	0.098300	-4.297363	24869.281486			
HLA A*2601	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.390967
	0.093374	-4.297592	24601.784925			
HLA A*2403	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.391204
	0.093374	-4.297830	24615.230984			
HLA B*5701	1:84-929		STPREAPYE	0.746095	-0.647795	-4.396143
	0.098300	-4.297843	24896.742808			
HLA B*4001	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.390182
	0.092119	-4.298063	24557.372023			
HLA B*3501	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.407133
	0.108361	-4.298772	25534.856629			
HLA B*0801	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.364363
	0.065526	-4.298838	23140.002353			
HLA A*0101	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.390830
	0.091985	-4.298845	24594.066746			
HLA A*0211	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.465426
	0.166493	-4.298933	29202.934620			

HLA B*4002	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.643783
	0.344471	-4.299312	44033.474086			
HLA B*3901	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.468175
	0.168569	-4.299606	29388.362869			
HLA B*5101	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.457614
	0.157927	-4.299688	28682.332002			
HLA A*6802	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.427590
	0.127871	-4.299719	26766.426246			
HLA A*0216	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.392066
	0.091985	-4.300081	24664.151333			
HLA A*0206	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.553849
	0.253524	-4.300325	35797.225227			
HLA A*0206	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.542374
	0.241980	-4.300395	34863.780567			
HLA A*3301	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.606093
	0.305553	-4.300540	40373.138602			
HLA B*5301	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.572053
	0.271476	-4.300577	37329.586047			
HLA B*0801	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.409441
	0.108361	-4.301079	25670.871811			
HLA B*4403	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.587167
	0.286028	-4.301140	38651.594178			
HLA A*2301	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.546510
	0.245175	-4.301335	35197.318091			
HLA A*0203	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.366889
	0.065526	-4.301364	23274.968140			
HLA B*0702	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.424715
	0.123229	-4.301485	26589.772407			
HLA A*6802	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.409899
	0.108361	-4.301538	25697.967031			
HLA B*1502	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.462367
	0.160477	-4.301891	28997.961350			

HLA A*2403	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.394176
	0.092119	-4.302057	24784.263285			
HLA A*0250	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.537882
	0.235698	-4.302184	34505.018464			
HLA A*8001	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.399068
	0.096880	-4.302188	25064.996122			
HLA A*6901	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.367801
	0.065526	-4.302275	23323.874469			
HLA B*4402	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.425622
	0.123229	-4.302392	26645.355642			
HLA A*2902	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.396248
	0.093374	-4.302874	24902.804534			
HLA B*0801	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.178648
	-0.124403	-4.303051	15088.579546			
HLA B*4601	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.343686
	0.040514	-4.303171	22064.067694			
HLA B*1517	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.425330
	0.122021	-4.303310	26627.487232			
HLA B*4601	1:23-31	9	AAPKTYCEE	0.685714	-0.594884	-4.394143
	0.090830	-4.303314	24782.386234			
HLA B*0803	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.473107
	0.169649	-4.303458	29723.980151			
HLA A*8001	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.426738
	0.123229	-4.303508	26713.914191			
HLA A*0211	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.521993
	0.218305	-4.303687	33265.395946			
HLA B*4402	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.400980
	0.096880	-4.304100	25175.616975			
HLA B*4501	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.432198
	0.127871	-4.304326	27051.897285			
HLA A*0301	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.369053
	0.064686	-4.304367	23391.225238			

HLA A*1101	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.470863
	0.166493	-4.304370	29570.808884			
HLA B*5701	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.396829
	0.091985	-4.304844	24936.102965			
HLA A*2601	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.381202
	0.076178	-4.305024	24054.822566			
HLA B*3901	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.471566
	0.166493	-4.305072	29618.680056			
HLA A*0301	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.369025
	0.063696	-4.305329	23389.706760			
HLA B*4601	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.402376
	0.096880	-4.305496	25256.648295			
HLA A*2403	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.414081
	0.108361	-4.305720	25946.623553			
HLA A*0203	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.402691
	0.096880	-4.305811	25274.964113			
HLA A*3101	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.414365
	0.108361	-4.306004	25963.613685			
HLA B*2705	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.474705
	0.168569	-4.306135	29833.527863			
HLA A*0201	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.397061
	0.090830	-4.306232	24949.461796			
HLA A*0216	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.261519
	0.044895	-4.306414	18260.782839			-
HLA A*0211	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.551772
	0.245175	-4.306598	35626.439357			
HLA A*3001	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.300772
	-0.005967	-4.306740	19988.133330			
HLA A*0219	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.400412
	0.093374	-4.307037	25142.678795			
HLA A*2301	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.541369
	0.234162	-4.307207	34783.149219			

HLA B*4501	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.598741
	0.291433	-4.307308	39695.472351		
HLA B*1509	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.543096
	0.235698	-4.307397	34921.731698		
HLA A*0216	1:167-175 9	SKQTGQQVS	1.053333	-0.925462	-4.435572
	0.127871	-4.307700	27262.871101		
HLA B*7301	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.599206
	0.291433	-4.307773	39738.015257		
HLA B*4001	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.406144
	0.098300	-4.307845	25476.765554		
HLA B*3801	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.549959
	0.241980	-4.307979	35477.958146		
HLA A*0219	1:163-171 9	QGELSKQTG	0.927669	-0.758020	-4.477862
	0.169649	-4.308214	30051.234695		
HLA B*4002	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.643517
	0.335272	-4.308246	44006.563880		
HLA B*0801	1:188-196 9	QNFAVTNDG	0.673013	-0.639588	-4.342006
	0.033425	-4.308581	21978.887168		
HLA B*4801	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.402066
	0.093374	-4.308691	25238.618826		
HLA A*0202	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.562352
	0.253524	-4.308828	36504.982992		
HLA A*2601	1:217-225 9	LVPRSAIDS	0.966010	-0.900484	-4.374393
	0.065526	-4.308868	23680.635348		
HLA B*2705	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.373764
	0.064686	-4.309077	23646.326849		
HLA A*3002	1:187-195 9	YQNFAVTND	0.973541	-0.744146	-4.538566
	0.229395	-4.309170	34559.381726		
HLA B*5401	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.551533
	0.241980	-4.309553	35606.785801		
HLA B*2705	1:163-171 9	QGELSKQTG	0.927669	-0.758020	-4.479223
	0.169649	-4.309574	30145.512530		

HLA B*7301	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.374262	
	0.064686	-4.309575	23673.462296			
HLA B*5401	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.554881	
	0.245175	-4.309706	35882.342571			
HLA B*1501	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.418091	
	0.108361	-4.309730	26187.342108			
HLA A*0203	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.432973
	0.123229	-4.309744	27100.235183			
HLA A*8001	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.431852	
	0.122021	-4.309832	27030.392716			
HLA B*3801	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.563463	
	0.253524	-4.309939	36598.514390			
HLA B*5801	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.350476
	0.040514	-4.309961	22411.740897			
HLA A*0301	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.350821
	0.040514	-4.310306	22429.571006			
HLA B*0702	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.402648
	0.092119	-4.310530	25272.503007			
HLA A*2601	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.384708
	0.073876	-4.310832	24249.768078			
HLA A*0250	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.552863
	0.241980	-4.310883	35715.980774			
HLA A*0216	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.407770
	0.096880	-4.310890	25572.320226			
HLA A*0101	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.376611
	0.065526	-4.311086	23801.880152			
HLA B*0801	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.409401	
	0.098300	-4.311101	25668.511018			
HLA B*4403	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.305246
	-0.005967	-4.311213	20195.083685			
HLA B*3501	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.376776
	0.065526	-4.311250	23810.895447			

HLA B*0702	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.403287
	0.091985	-4.311302	25309.718613			
HLA B*4402	1:23-319	AAPKTYCEE	0.685714	-0.594884	-4.402188	
	0.090830	-4.311358	25245.719807			
HLA A*0202	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.553415
	0.241980	-4.311435	35761.416231			
HLA B*0801	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.408327
	0.096880	-4.311447	25605.128644			
HLA A*0219	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.403604
	0.091985	-4.311620	25328.209939			
HLA A*3301	1:10-189	TAVVLLCCS	1.085894	-0.909066	-4.488771	
	0.176828	-4.311943	30815.624904			
HLA B*0802	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.480599
	0.168569	-4.312030	30241.231328			
HLA A*2501	1:39-479	QACQIQMSD	0.891798	-0.769777	-4.434143	
	0.122021	-4.312123	27173.345038			
HLA A*3201	1:39-479	QACQIQMSD	0.891798	-0.769777	-4.434192	
	0.122021	-4.312172	27176.432314			
HLA B*0802	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.472743
	0.160477	-4.312266	29699.066065			
HLA A*2301	1:43-519	IQMSDPAYN	0.678035	-0.520108	-4.470234	
	0.157927	-4.312307	29527.966703			
HLA B*4601	1:84-929	STPREAPYE	0.746095	-0.647795	-4.410637	
	0.098300	-4.312337	25741.657399			
HLA B*4403	1:94-102	9	NITSATYQS	1.243610	-0.899139	-4.657062
	0.344471	-4.312591	45400.667737			
HLA B*5101	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.479105
	0.166493	-4.312612	30137.359439			
HLA B*4601	1:71-799	AQTRDKFLS	0.986232	-0.892858	-4.406015	
	0.093374	-4.312641	25469.186226			
HLA A*2501	1:84-929	STPREAPYE	0.746095	-0.647795	-4.410951	
	0.098300	-4.312652	25760.324939			

HLA B*3501	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.440726
	0.127871	-4.312855	27588.390229			
HLA A*2602	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.554996
	0.241980	-4.313016	35891.855687			
HLA A*0250	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.481807
	0.168569	-4.313238	30325.439630			
HLA B*0802	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.483104
	0.169649	-4.313455	30416.134593			
HLA A*0211	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.411973
	0.098300	-4.313674	25821.018145			
HLA B*0801	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.387856
	0.073876	-4.313980	24426.199470			
HLA A*3301	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.387915
	0.073876	-4.314039	24429.503269			
HLA B*7301	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.592494
	0.278445	-4.314049	39128.544515			
HLA B*5801	1:54-62	9	ISLPSYYPD	0.496117	-0.692209	-4.118267
	0.196092	-4.314359	13130.056419			-
HLA A*0212	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.422781
	0.108361	-4.314420	26471.648890			
HLA A*0202	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.411480
	0.096880	-4.314600	25791.700144			
HLA B*1502	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.556659
	0.241980	-4.314680	36029.592339			
HLA A*6901	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.379518
	0.064686	-4.314831	23961.697271			
HLA A*0101	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.379738
	0.064686	-4.315052	23973.885602			
HLA A*0201	1:38-46	9	GQACQIQMS	0.965607	-1.010502	-4.270215
	0.044895	-4.315109	18630.084974			-
HLA B*5701	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.423507
	0.108361	-4.315146	26515.937381			

HLA B*5701	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.408729	
	0.093374	-4.315355	25628.826679			
HLA B*4402	1:157-165 9	VVFPVQGE	0.697577	-0.605458	-4.407740	
	0.092119	-4.315621	25570.521825			
HLA A*0219	1:194-202 9	NDGVIFFFN	0.826929	-0.753053	-4.389533	
	0.073876	-4.315658	24520.732050			
HLA B*4402	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.414064	
	0.098300	-4.315765	25945.640994			
HLA A*0212	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.379511	
	0.063696	-4.315815	23961.308384			
HLA B*5801	1:213-221 9	PTQVLVPRS	1.263904	-1.221578	-4.358337	
	0.042326	-4.316011	22821.120795			
HLA A*2403	1:217-225 9	LVPRSAIDS	0.966010	-0.900484	-4.381891	
	0.065526	-4.316365	24092.982041			
HLA A*3001	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.272022	-
	0.044895	-4.316916	18707.751384			
HLA A*0203	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.425441	
	0.108361	-4.317079	26634.258525			
HLA B*1801	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.425457	
	0.108361	-4.317096	26635.267163			
HLA A*3301	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.440731	
	0.123229	-4.317502	27588.688731			
HLA B*1801	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.439530	
	0.122021	-4.317510	27512.526410			
HLA A*0201	1:217-225 9	LVPRSAIDS	0.966010	-0.900484	-4.383180	
	0.065526	-4.317655	24164.645268			
HLA B*4801	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.441201	
	0.123229	-4.317972	27618.555235			
HLA A*1101	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.440419	
	0.122021	-4.318398	27568.845388			
HLA B*3901	1:163-171 9	QGELSKQTG	0.927669	-0.758020	-4.488334	
	0.169649	-4.318685	30784.632604			

HLA B*1501	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.392616
	0.073876	-4.318740	24695.393800			
HLA B*1509	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.488449
	0.169649	-4.318800	30792.794217			
HLA A*3301	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.572692
	0.253524	-4.319168	37384.556588			
HLA B*1801	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.416108
	0.096880	-4.319229	26068.044667			
HLA A*2902	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.447176
	0.127871	-4.319304	28001.138948			
HLA A*0216	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.489053
	0.169649	-4.319404	30835.636493			
HLA A*0211	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.496259
	0.176828	-4.319430	31351.533462			
HLA B*4801	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.427823
	0.108361	-4.319462	26780.765623			
HLA B*7301	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.555233
	0.235698	-4.319535	35911.472313			
HLA A*0211	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.411560
	0.091985	-4.319575	25796.444608			
HLA A*2603	1:45-53	9	MSDPAYNIN	0.920513	-0.629080	-4.611421
	0.291433	-4.319988	40871.553447			
HLA A*0203	1:23-31	9	AAPKTYCEE	0.685714	-0.594884	-4.410846
	0.090830	-4.320016	25754.054480			
HLA A*0301	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.362439
	0.042326	-4.320113	23037.702760			
HLA A*2402	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.574104
	0.253787	-4.320317	37506.304434			
HLA B*3501	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.417316
	0.096880	-4.320436	26140.632511			
HLA A*2403	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.396779
	0.076178	-4.320601	24933.270193			

HLA A*2402	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.556601
	0.235698	-4.320902	36024.719766			
HLA A*0206	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.489572
	0.168569	-4.321003	30872.525180			
HLA A*0206	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.386575
	0.065526	-4.321050	24354.287582			
HLA A*6802	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.414579
	0.093374	-4.321205	25976.398716			
HLA A*2602	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.444648
	0.123229	-4.321419	27838.616661			
HLA A*3201	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.600033
	0.278445	-4.321588	39813.759700			
HLA A*0101	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.385518
	0.063696	-4.321822	24295.070393			
HLA B*1517	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.445094
	0.123229	-4.321865	27867.246100			
HLA A*2402	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.551443
	0.229395	-4.322048	35599.466661			
HLA A*0219	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.444128
	0.122021	-4.322108	27805.353104			
HLA A*3001	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.296766
	-0.025590	-4.322357	19804.613249			
HLA B*1503	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.355950
	0.033425	-4.322525	22696.029798			
HLA A*8001	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.416219
	0.093374	-4.322845	26074.673695			
HLA B*0801	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.415284
	0.091985	-4.323299	26018.591777			
HLA B*4001	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.397183
	0.073876	-4.323308	24956.481422			
HLA B*0702	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.445392
	0.122021	-4.323372	27886.399036			

HLA B*5701	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.414370
	0.090830	-4.323540	25963.894607			
HLA B*0702	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.420493
	0.096880	-4.323613	26332.530476			
HLA A*2403	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.446941
	0.123229	-4.323712	27985.994739			
HLA A*0250	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.553119
	0.229395	-4.323723	35737.047910			
HLA A*3101	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-4.199390
	-0.124403	-4.323792	15826.672309			
HLA B*5301	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.500643
	0.176828	-4.323815	31669.625432			
HLA A*6801	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.559735
	0.235698	-4.324036	36285.643061			
HLA B*0802	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.446097
	0.122021	-4.324077	27931.694480			
HLA A*0219	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.447387
	0.123229	-4.324158	28014.775743			
HLA A*6802	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.415068
	0.090830	-4.324238	26005.645291			
HLA A*0219	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.387995
	0.063696	-4.324299	24433.997153			
HLA A*8001	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.432783
	0.108361	-4.324422	27088.362434			
HLA A*3002	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.558955
	0.234162	-4.324793	36220.529520			
HLA B*1801	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.482794
	0.157927	-4.324867	30394.422022			
HLA B*5401	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.446929
	0.122021	-4.324908	27985.237744			
HLA B*5401	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.421790
	0.096880	-4.324910	26411.283757			

HLA A*0212	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.448372
	0.123229	-4.325142	28078.350081			
HLA A*2301	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.543570	
	0.218305	-4.325265	34959.914942			
HLA A*2602	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.578904	
	0.253524	-4.325380	37923.138511			
HLA B*5801	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.358819
	0.033425	-4.325394	22846.444080			
HLA B*1801	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.417549
	0.092119	-4.325430	26154.636635			
HLA B*0801	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.389369	
	0.063696	-4.325673	24511.447997			
HLA A*6801	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.399629
	0.073876	-4.325753	25097.425207			
HLA B*5401	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.544066	
	0.218305	-4.325761	34999.844002			
HLA B*4501	1:59-67 9	YYPDQKSLE	0.890200	-0.554928	-4.661099	
	0.335272	-4.325827	45824.597137			
HLA A*6801	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.612300
	0.286028	-4.326272	40954.332516			
HLA B*1517	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.368752
	0.042326	-4.326426	23375.033221			
HLA B*1517	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.417325	
	0.090830	-4.326496	26141.198189			
HLA A*0201	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.402775
	0.076178	-4.326597	25279.887043			
HLA A*0202	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.420147	
	0.093374	-4.326773	26311.597758			
HLA B*0803	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.454781
	0.127871	-4.326910	28495.808241			
HLA B*4801	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.423834
	0.096880	-4.326954	26535.884191			

HLA A*3002	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.449300
	0.122021	-4.327279	28138.415035			
HLA B*1509	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.391068
	0.063696	-4.327372	24607.508586			
HLA A*2601	1:86-949		PREAPYELN	0.811488	-0.746802	-4.392160
	0.064686	-4.327474	24669.489123			
HLA A*0206	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.292551
0.035101	-4.327653		19613.332446			-
HLA B*1517	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.419731
	0.091985	-4.327747	26286.415136			
HLA B*4501	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.581298
	0.253524	-4.327774	38132.773820			
HLA B*5101	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.488357
	0.160477	-4.327881	30786.298064			
HLA B*3801	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.573096
	0.245175	-4.327922	37419.359143			
HLA B*5701	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.404345
	0.076178	-4.328166	25371.408921			
HLA B*0702	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.421674
	0.093374	-4.328300	26404.283461			
HLA B*4001	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.404711
	0.076178	-4.328533	25392.829974			
HLA A*2902	1:201-209	9	FNPCELLPE	0.811387	-0.836977	-4.303058
	-0.025590	-4.328649	20093.624709			
HLA A*2902	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.425622
	0.096880	-4.328742	26645.355642			
HLA A*0101	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.405049
	0.076178	-4.328871	25412.619306			
HLA B*3901	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.489410
	0.160477	-4.328934	30861.003162			
HLA B*4601	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.394599
	0.065526	-4.329073	24808.409460			

HLA A*0203	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.427417	
	0.098300	-4.329117	26755.712940			
HLA A*0202	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.574320	
	0.245175	-4.329146	37524.976335			
HLA A*2902	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.405808
	0.076178	-4.329630	25457.063990			
HLA B*5301	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.583490
	0.253787	-4.329703	38325.732760			
HLA A*0101	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.370416
	0.040514	-4.329901	23464.735988			
HLA A*0301	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.363600
	0.033425	-4.330175	23099.353023			
HLA A*2902	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.438560	
	0.108361	-4.330199	27451.124227			
HLA B*0802	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.458136
	0.127871	-4.330265	28716.800044			
HLA B*5701	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.395877
	0.065526	-4.330351	24881.527645			
HLA B*1502	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.583923	
	0.253524	-4.330398	38363.901939			
HLA A*0216	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.406711
	0.076178	-4.330532	25510.003398			
HLA B*1801	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.500192
	0.169649	-4.330543	31636.747311			
HLA A*0201	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.394575	
	0.063696	-4.330880	24807.067389			
HLA B*4501	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.636469
	0.305553	-4.330916	43298.116468			
HLA B*4801	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.423077
	0.092119	-4.330958	26489.699336			
HLA B*3801	1:156-164	9	PVVFPVQG	0.934938	-0.699240	-4.566687
	0.235698	-4.330989	36871.172662			

HLA B*7301	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.458869
	0.127871	-4.330998	28765.311642			
HLA B*1801	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.499760
	0.168569	-4.331190	31605.271141			
HLA A*2601	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.395123
	0.063696	-4.331427	24838.356517			
HLA B*4403	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.424804
	0.093374	-4.331430	26595.239182			
HLA A*2602	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.623004
	0.291433	-4.331571	41976.295235			
HLA B*4001	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.422551
	0.090830	-4.331721	26457.618159			
HLA A*2501	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.501442
	0.169649	-4.331793	31727.930954			
HLA A*2902	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.207392
	-0.124403	-4.331795	16120.999195			
HLA B*2705	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.453851
	0.122021	-4.331830	28434.826557			
HLA A*0201	1:86-949		PREAPYELN	0.811488	-0.746802	-4.396718
	0.064686	-4.332032	24929.763398			
HLA B*4403	1:59-679		YYPDQKSLE	0.890200	-0.554928	-4.667470
	0.335272	-4.332199	46501.874411			
HLA B*4403	1:45-539		MSDPAYNIN	0.920513	-0.629080	-4.623725
	0.291433	-4.332292	42046.068902			
HLA B*4801	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.395992
	0.063696	-4.332296	24888.124229			
HLA B*1503	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.498808
	0.166493	-4.332315	31536.099636			
HLA B*5801	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.297725
	0.035101	-4.332826	19848.374959			-
HLA A*0202	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.424893
	0.091985	-4.332908	26600.707081			

HLA B*1502	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.551587	
	0.218305	-4.333281	35611.216538			
HLA B*4601	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.397071	
	0.063696	-4.333375	24950.001697			
HLA B*5401	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.499962
	0.166493	-4.333468	31619.978930			
HLA B*2705	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.441901	
	0.108361	-4.333540	27663.116315			
HLA B*1501	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.376513
	0.042326	-4.334186	23796.472614			
HLA B*0802	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.431307
	0.096880	-4.334428	26996.488306			
HLA A*2602	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.612984	
	0.278445	-4.334539	41018.856787			
HLA B*3801	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.568841
	0.234162	-4.334680	37054.540150			
HLA A*3101	1:217-225	9	LVPSAIDS	0.966010	-0.900484	-4.400513
	0.065526	-4.334987	25148.528297			
HLA B*4403	1:77-85 9	FLSAATSST	0.627583	-0.297236	-4.665335	
	0.330347	-4.334987	46273.758644			
HLA A*2402	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.588899	
	0.253524	-4.335375	38806.009125			
HLA A*2501	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.411731
	0.076178	-4.335553	25806.634201			
HLA B*0803	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.494088	
	0.157927	-4.336161	31195.206418			
HLA B*4402	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.444659	
	0.108361	-4.336298	27839.369691			
HLA A*2403	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.369882
	0.033425	-4.336458	23435.937927			
HLA B*4002	1:45-53 9	MSDPAYNIN	0.920513	-0.629080	-4.628117	
	0.291433	-4.336683	42473.356717			

HLA A*8001	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.413080
	0.076178	-4.336902	25886.895485			
HLA B*5101	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.505499
	0.168569	-4.336930	32025.750237			
HLA B*4801	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.413256
	0.076178	-4.337078	25897.401009			
HLA A*0212	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.459104
	0.122021	-4.337083	28780.877567			
HLA B*7301	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.582393
	0.245175	-4.337219	38229.028139			
HLA B*3801	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.555532
	0.218305	-4.337226	35936.153981			
HLA A*3301	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.623300
	0.286028	-4.337273	42004.917965			
HLA A*0211	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.430934
	0.093374	-4.337559	26973.276657			
HLA A*3002	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.591333
	0.253524	-4.337809	39024.113665			
HLA A*3301	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.591641
	0.253787	-4.337853	39051.779680			
HLA A*2902	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.302863
0.035101	-4.337964		20084.604278			-
HLA B*0802	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.431535
	0.093374	-4.338161	27010.658680			
HLA B*5101	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.507814
	0.169649	-4.338165	32196.862661			
HLA A*0216	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.403929
	0.065526	-4.338403	25347.126147			
HLA A*0216	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.429505
	0.090830	-4.338676	26884.701566			
HLA A*3301	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.610169
	0.271476	-4.338693	40753.871260			

HLA B*5701	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.412753
	0.073876	-4.338878	25867.436514			
HLA B*5301	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.574840
	0.235698	-4.339141	37569.867483			
HLA B*3501	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.432531
	0.093374	-4.339157	27072.686652			
HLA A*0212	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.436131
	0.096880	-4.339251	27297.996117			
HLA A*0202	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.505950
	0.166493	-4.339457	32059.032625			
HLA B*5301	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.593039
	0.253524	-4.339514	39177.685359			
HLA B*4801	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.437867
	0.098300	-4.339567	27407.349443			
HLA A*6802	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.432038
	0.091985	-4.340053	27041.947468			
HLA A*2501	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.404267
	0.063696	-4.340571	25366.879861			
HLA B*0801	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.381207
	0.040514	-4.340692	24055.082835			
HLA B*4002	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.646670
	0.305553	-4.341118	44327.217243			
HLA A*2403	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.415018
	0.073876	-4.341143	26002.691018			
HLA B*1501	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.417455
	0.076178	-4.341276	26148.977500			
HLA A*2601	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.383695
	0.042326	-4.341369	24193.291677			
HLA B*3801	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.570977
	0.229395	-4.341582	37237.207932			
HLA A*1101	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.469463
	0.127871	-4.341591	29475.617450			

HLA A*3101	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.406288
	0.064686	-4.341601	25485.174357		
HLA B*1501	1:204-212 9	GELLPEAAG	0.791497	-0.797464	-4.335707
	-0.005967	-4.341674	21662.407947		
HLA A*3201	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.499802
	0.157927	-4.341875	31608.348949		
HLA B*3901	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.464123
	0.122021	-4.342102	29115.384645		
HLA A*0212	1:217-225 9	LVPRSAIDS	0.966010	-0.900484	-4.407770
	0.065526	-4.342245	25572.320226		
HLA A*6802	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.406010
	0.063696	-4.342315	25468.910656		
HLA A*8001	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.433441
	0.090830	-4.342611	27129.426138		
HLA A*2501	1:167-175 9	SKQTGQQVS	1.053333	-0.925462	-4.470506
	0.127871	-4.342635	29546.502710		
HLA A*0216	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.466145
	0.123229	-4.342916	29251.317956		
HLA B*4402	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.298261
	0.044895	-4.343155	19872.872136		
HLA A*3201	1:137-145 9	AYRKPITYD	0.853411	-0.611431	-4.585556
	0.241980	-4.343576	38508.416845		
HLA B*1517	1:167-175 9	SKQTGQQVS	1.053333	-0.925462	-4.471789
	0.127871	-4.343917	29633.906177		
HLA A*0250	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.597472
	0.253524	-4.343948	39579.677595		
HLA A*2301	1:127-135 9	TTYKAFDWD	0.819008	-0.722128	-4.440865
	0.096880	-4.343985	27597.197393		
HLA B*3501	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.467219
	0.123229	-4.343990	29323.726026		
HLA A*2501	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.452420
	0.108361	-4.344059	28341.298692		

HLA A*0212	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.338099
	-0.005967	-4.344066	21782.037728			
HLA A*0212	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.420251
	0.076178	-4.344072	26317.861588			
HLA B*1502	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.512797
	0.168569	-4.344228	32568.429203			
HLA B*4601	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.377763
	0.033425	-4.344338	23865.058965			
HLA B*4001	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.410155
	0.065526	-4.344629	25713.125024			
HLA B*5301	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.578893
	0.234162	-4.344731	37922.112725			
HLA A*2902	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.410301
	0.065526	-4.344775	25721.750990			
HLA B*4801	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.435710
	0.090830	-4.344881	27271.574348			
HLA B*4402	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.421195
	0.076178	-4.345017	26375.159309			
HLA A*3301	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.437270
	0.092119	-4.345152	27369.714543			
HLA B*4001	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.385666
	0.040514	-4.345152	24303.352124			
HLA A*0216	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.453531
	0.108361	-4.345170	28413.913472			
HLA B*1801	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.473123
	0.127871	-4.345252	29725.105796			
HLA A*3002	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.512054
	0.166493	-4.345561	32512.800224			
HLA A*0203	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.419494
	0.073876	-4.345618	26272.056194			
HLA B*7301	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.379508
	0.033425	-4.346083	23961.178756			

HLA B*0803	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.514965
	0.168569	-4.346396	32731.460739			
HLA B*4402	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.379870
	0.033425	-4.346445	23981.149682			
HLA B*5101	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.443398
	0.096880	-4.346518	27758.610610			
HLA B*4601	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.420443
	0.073876	-4.346568	26329.539068			
HLA B*4403	1:75-83 9		DKFLSAATS	1.204544	-0.986239	-4.565230
	0.218305	-4.346925	36747.709081			
HLA A*3301	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.443814
	0.096880	-4.346934	27785.203608			
HLA A*2501	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.470278
	0.123229	-4.347049	29531.001977			
HLA A*0201	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.389400
	0.042326	-4.347073	24513.171913			
HLA A*2602	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.600971
	0.253787	-4.347183	39899.792342			
HLA A*2603	1:75-83 9		DKFLSAATS	1.204544	-0.986239	-4.565660
	0.218305	-4.347355	36784.107685			
HLA A*6801	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.576837
	0.229395	-4.347441	37743.026802			
HLA A*0212	1:84-92 9		STPREAPYE	0.746095	-0.647795	-4.445759
	0.098300	-4.347459	27909.943492			
HLA A*3201	1:75-83 9		DKFLSAATS	1.204544	-0.986239	-4.566036
	0.218305	-4.347731	36815.961140			
HLA A*0250	1:29-37 9		CEELKGTDT	0.714161	-0.468986	-4.592917
	0.245175	-4.347742	39166.665669			
HLA A*3301	1:60-68 9		YPDQKSLEN	1.087218	-0.808773	-4.626322
	0.278445	-4.347877	42298.170024			
HLA B*4403	1:67-75 9		ENYIAQTRD	1.094922	-0.841398	-4.601471
	0.253524	-4.347947	39945.795627			

HLA A*0212	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.438950
	0.090830	-4.348121	27475.787551			
HLA B*0803	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.525172
	0.176828	-4.348343	33509.777969			
HLA A*3301	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.506293
	0.157927	-4.348367	32084.364257			
HLA B*4501	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.590393
	0.241980	-4.348414	38939.758516			
HLA B*3501	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.440893
	0.091985	-4.348908	27598.989024			
HLA B*5301	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.594167
	0.245175	-4.348992	39279.552092			
HLA A*0206	1:84-929		STPREAPYE	0.746095	-0.647795	-4.447359
	0.098300	-4.349059	28012.957120			
HLA A*3002	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.446046
	0.096880	-4.349166	27928.370316			
HLA A*3002	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.567775
	0.218305	-4.349469	36963.642549			
HLA A*0219	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.457849
	0.108361	-4.349488	28697.853024			
HLA B*1509	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.441614
	0.092119	-4.349496	27644.864503			
HLA A*3201	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.446400
	0.096880	-4.349521	27951.194134			
HLA B*3901	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.442958
	0.093374	-4.349584	27730.542832			
HLA A*0101	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.383493
	0.033425	-4.350068	24182.038355			
HLA B*5301	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.579677
	0.229395	-4.350282	37990.696246			
HLA A*3002	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.315525
	0.035101	-4.350626	20678.767679			-

HLA A*3002	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.473868
	0.123229	-4.350639	29776.126152			
HLA A*0219	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.449098	
	0.098300	-4.350798	28125.326670			
HLA A*8001	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.416506
	0.065526	-4.350980	26091.888829			
HLA A*0203	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.384423
	0.033425	-4.350999	24233.899457			
HLA A*2402	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.596206	
	0.245175	-4.351031	39464.434118			
HLA B*1502	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.585213
	0.234162	-4.351051	38478.013219			
HLA B*0803	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.511568
	0.160477	-4.351092	32476.411239			
HLA A*3101	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.384705
	0.033425	-4.351280	24249.636890			
HLA A*2602	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.580960
	0.229395	-4.351565	38103.079041			
HLA B*4601	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.427774
	0.076178	-4.351595	26777.723295			
HLA A*3301	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.587416
	0.235698	-4.351718	38673.765224			
HLA B*5101	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.443898
	0.092119	-4.351780	27790.615471			
HLA A*2902	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.394235
	0.042326	-4.351909	24787.615514			
HLA B*1517	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.417669
	0.065526	-4.352143	26161.853809			
HLA A*6802	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.394552
	0.042326	-4.352226	24805.725391			
HLA B*1503	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.521892
	0.169649	-4.352243	33257.658475			

HLA B*4001	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.417257
	0.064686	-4.352571	26137.097302		
HLA B*1503	1:127-135 9	TTYKAFDWD	0.819008	-0.722128	-4.449943
	0.096880	-4.353064	28180.155808		
HLA A*3002	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.598271
	0.245175	-4.353097	39652.545957		
HLA B*0702	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.429338
	0.076178	-4.353160	26874.377078		
HLA B*4002	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.631653
	0.278445	-4.353208	42820.581438		
HLA B*0803	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-4.445357
	0.092119	-4.353239	27884.136192		
HLA A*8001	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.445498
	0.091985	-4.353513	27893.188667		
HLA A*0201	1:188-196 9	QNFAVTNDG	0.673013	-0.639588	-4.386961
	0.033425	-4.353536	24375.904825		
HLA B*3501	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.444955
	0.090830	-4.354126	27858.352756		
HLA A*2601	1:188-196 9	QNFAVTNDG	0.673013	-0.639588	-4.387917
	0.033425	-4.354492	24429.635430		
HLA B*5101	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.476641
	0.122021	-4.354620	29966.815091		
HLA B*0802	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.477961
	0.123229	-4.354732	30058.063572		
HLA A*3101	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.418627
	0.063696	-4.354931	26219.662938		
HLA A*2603	1:60-68 9	YPDQKSLEN	1.087218	-0.808773	-4.633457
	0.278445	-4.355012	42998.862273		
HLA A*0301	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.320000
	0.035101	-4.355102	20892.981657		
HLA B*4002	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.447136
	0.091985	-4.355151	27998.563854		

HLA A*2603	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.609349
	0.253787	-4.355562	40676.998452			
HLA B*1503	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.524197
	0.168569	-4.355627	33434.629422			
HLA A*2301	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.532523
	0.176828	-4.355695	34081.844360			
HLA A*0250	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.522289
	0.166493	-4.355795	33288.078901			
HLA B*1509	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.516511
	0.160477	-4.356035	32848.182775			
HLA A*1101	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.479317
	0.123229	-4.356088	30152.036591			
HLA A*3201	1:67-75	9	ENYIAQTRD	1.094922	-0.841398	-4.609981
	0.253524	-4.356456	40736.237162			
HLA A*0250	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.590908
	0.234162	-4.356746	38985.920348			
HLA B*1509	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.525409
	0.168569	-4.356840	33528.092675			
HLA A*2601	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.331353
	-0.025590	-4.356943	21446.337417			
HLA A*0216	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.431140
	0.073876	-4.357265	26986.120888			
HLA B*1509	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.534581
	0.176828	-4.357753	34243.743686			
HLA B*4801	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.422539
	0.064686	-4.357853	26456.902505			
HLA A*0203	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.400240
	0.042326	-4.357914	25132.751361			
HLA B*4403	1:118-126	9	QNAGGTHPT	0.654006	-0.382530	-4.629550
	0.271476	-4.358074	42613.751696			
HLA A*0250	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.423676
	0.065526	-4.358151	26526.267670			

HLA B*0802	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.450465
	0.092119	-4.358346	28214.020376			
HLA B*4601	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.423051	
	0.064686	-4.358365	26488.123013			
HLA A*2402	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.592724
	0.234162	-4.358562	39149.294762			
HLA A*3002	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.594618
	0.235698	-4.358919	39320.372909			
HLA A*0219	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.455855
	0.096880	-4.358975	28566.346139			
HLA B*1501	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.324161	-
	0.035101	-4.359262	21094.117504			
HLA A*2603	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.604540	
	0.245175	-4.359365	40229.024638			
HLA B*7301	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.452756	
	0.093374	-4.359382	28363.232405			
HLA B*4002	1:67-75 9	ENYIAQTRD	1.094922	-0.841398	-4.613214	
	0.253524	-4.359689	41040.609484			
HLA B*3901	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.423401	
	0.063696	-4.359705	26509.482994			
HLA A*2902	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.452469
	0.091985	-4.360484	28344.518664			
HLA B*1502	1:29-37 9	CEELKGTDT	0.714161	-0.468986	-4.605757	
	0.245175	-4.360582	40341.917449			
HLA A*2301	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.527089
	0.166493	-4.360595	33658.032856			
HLA A*3101	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.437014
	0.076178	-4.360836	27353.579984			
HLA A*2403	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.403360
	0.042326	-4.361034	25313.963575			
HLA B*1503	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.426571
	0.065526	-4.361045	26703.655290			

HLA B*7301	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.437439
	0.076178	-4.361261	27380.377452			
HLA A*2301	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.521887
	0.160477	-4.361410	33257.298637			
HLA A*6801	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.615575
	0.253787	-4.361788	41264.352445			
HLA B*4801	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.435969
	0.073876	-4.362093	27287.808159			
HLA A*2603	1:100-108	9	YQSAIPPRG	0.865176	-0.579148	-4.648132
	0.286028	-4.362104	44476.627397			
HLA B*5301	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.604330
	0.241980	-4.362351	40209.659824			
HLA B*1503	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.427179
	0.064686	-4.362493	26741.097643			
HLA B*4501	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.592043
	0.229395	-4.362647	39087.922847			
HLA B*3501	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.396161
	0.033425	-4.362737	24897.820341			
HLA A*0216	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.484798
	0.122021	-4.362777	30535.005320			
HLA B*5701	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.426538
	0.063696	-4.362842	26701.632873			
HLA A*2402	1:75-83	9	DKFLSAATS	1.204544	-0.986239	-4.581298
	0.218305	-4.362993	38132.773820			
HLA B*0802	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.471382
	0.108361	-4.363021	29606.184458			
HLA B*4402	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.427837
	0.064686	-4.363151	26781.634922			
HLA A*8001	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.403715
	0.040514	-4.363200	25334.650830			
HLA B*0702	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.428864
	0.065526	-4.363338	26845.024864			

HLA B*4403	1:173-181	9	QVSIAPNAG	0.868398	-0.562845	-4.669087
	0.305553	-4.363534	46675.277064			
HLA B*5801	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.357801
	-0.005967	-4.363769	22792.989329			
HLA A*6801	1:60-68	9	YPDQKSLEN	1.087218	-0.808773	-4.642371
	0.278445	-4.363926	43890.538634			
HLA B*5701	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.428655
	0.064686	-4.363968	26832.102629			
HLA B*4601	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.406323
	0.042326	-4.363997	25487.242520			
HLA B*4403	1:43-51	9	IQMSDPAYN	0.678035	-0.520108	-4.522197
	0.157927	-4.364270	33281.056334			
HLA A*0219	1:23-31	9	AAPKTYCEE	0.685714	-0.594884	-4.455281
	0.090830	-4.364452	28528.663069			
HLA B*0802	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.438485
	0.073876	-4.364609	27446.372397			
HLA B*1501	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.429454
	0.064686	-4.364767	26881.502005			
HLA B*0702	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.463394
	0.098300	-4.365094	29066.597156			
HLA B*0801	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.407577
	0.042326	-4.365251	25560.978582			
HLA B*4402	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.431051
	0.065526	-4.365526	26980.573765			
HLA A*0219	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.431486
	0.065526	-4.365960	27007.590236			
HLA A*0219	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.442305
	0.076178	-4.366127	27688.868850			
HLA B*2705	1:157-165	9	VVFPVQGE	0.697577	-0.605458	-4.459421
	0.092119	-4.367303	28801.904927			
HLA B*5701	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.409631
	0.042326	-4.367305	25682.123278			

HLA B*3801	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.525399
	0.157927	-4.367473	33527.367149			
HLA A*3301	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.597038
	0.229395	-4.367642	39540.084902			
HLA A*2902	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.458503
	0.090830	-4.367673	28741.045608			
HLA B*0702	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.441955
	0.073876	-4.368079	27666.558580			
HLA B*1801	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.491334
	0.123229	-4.368105	30998.042350			
HLA A*2403	1:86-949		PREAPYELN	0.811488	-0.746802	-4.433076
	0.064686	-4.368390	27106.686759			
HLA B*1502	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.604279
	0.235698	-4.368580	40204.874453			
HLA B*1517	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.462255
	0.093374	-4.368880	28990.432292			
HLA A*2902	1:86-949		PREAPYELN	0.811488	-0.746802	-4.433614
	0.064686	-4.368928	27140.289084			
HLA A*1101	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.459760
	0.090830	-4.368930	28824.351046			
HLA B*3901	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.477468
	0.108361	-4.369106	30023.934696			
HLA B*4501	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.535740
	0.166493	-4.369246	34335.196232			
HLA A*2301	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.538918
	0.169649	-4.369270	34587.437472			
HLA B*5701	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.409990
	0.040514	-4.369476	25703.389506			
HLA B*1502	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.497765
	0.127871	-4.369893	31460.441118			
HLA A*2602	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.588243
	0.218305	-4.369938	38747.481105			

HLA A*0206	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.461139
	0.090830	-4.370309	28916.031290			
HLA A*0202	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.335404
	0.035101	-4.370505	21647.295552			-
HLA A*1101	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.444455
	0.073876	-4.370579	27826.269886			
HLA B*4801	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.411182
	0.040514	-4.370667	25773.985890			
HLA B*0802	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.462990
	0.091985	-4.371005	29039.563239			
HLA A*2602	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.605383
	0.234162	-4.371221	40307.231366			
HLA A*2902	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.404669
	0.033425	-4.371244	25390.357392			
HLA B*5101	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.436869
	0.065526	-4.371343	27344.406773			
HLA B*4801	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.437019
	0.065526	-4.371493	27353.875945			
HLA A*0211	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.499642
	0.127871	-4.371771	31596.723247			
HLA A*8001	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.435644
	0.063696	-4.371949	27267.443647			
HLA B*4002	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.625948
	0.253787	-4.372161	42261.801950			
HLA A*6801	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.495615
	0.123229	-4.372386	31305.095208			
HLA A*2602	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.530380
	0.157927	-4.372454	33914.104851			
HLA B*4501	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.650904
	0.278445	-4.372459	44761.459644			
HLA A*0250	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.590941
	0.218305	-4.372635	38988.873193			

HLA A*0211	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.469672
	0.096880	-4.372792	29489.812791			
HLA B*5401	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.533280
	0.160477	-4.372803	34141.266139			
HLA A*2501	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.463678
	0.090830	-4.372849	29085.630280			
HLA A*6802	1:86-949		PREAPYELN	0.811488	-0.746802	-4.437559
	0.064686	-4.372873	27387.932860			
HLA B*3501	1:84-929		STPREAPYE	0.746095	-0.647795	-4.471291
	0.098300	-4.372991	29599.938636			
HLA B*1503	1:57-659		PSYYPDQKS	0.896699	-1.065490	-4.204371
	0.168791	-4.373161	16009.232748			-
HLA B*2705	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.414008
	0.040514	-4.373494	25942.272499			
HLA B*2705	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.496933
	0.123229	-4.373704	31400.248858			
HLA B*3801	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.501677
	0.127871	-4.373805	31745.100056			
HLA A*0212	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.407547
	0.033425	-4.374122	25559.180978			
HLA A*2501	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.414692
	0.040514	-4.374177	25983.145005			
HLA A*0301	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.368219
	-0.005967	-4.374186	23346.345251			
HLA B*3501	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.448193
	0.073876	-4.374317	28066.807996			
HLA A*3201	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.608769
	0.234162	-4.374607	40622.680412			
HLA A*6901	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.349320
	-0.025590	-4.374910	22352.167658			
HLA A*0211	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.544604
	0.169649	-4.374955	35043.230940			

HLA A*0211	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.483485
	0.108361	-4.375124	30442.803040			
HLA A*2301	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.543777
	0.168569	-4.375208	34976.562280			
HLA A*6901	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.369419
	-0.005967	-4.375387	23410.974424			
HLA B*1509	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.472440
	0.096880	-4.375560	29678.347039			
HLA B*5101	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.466853
	0.090830	-4.376023	29298.988921			
HLA B*1801	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.468077
	0.091985	-4.376092	29381.686141			
HLA B*5701	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.409610
	0.033425	-4.376185	25680.872871			
HLA A*3201	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.621423
	0.245175	-4.376248	41823.743492			
HLA B*0801	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.350696
	-0.025590	-4.376287	22423.140829			
HLA B*0702	1:86-949		PREAPYELN	0.811488	-0.746802	-4.441046
	0.064686	-4.376359	27608.695716			
HLA B*5101	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.504329
	0.127871	-4.376458	31939.584992			
HLA A*0250	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.553316
	0.176828	-4.376488	35753.291611			
HLA B*5401	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.534461
	0.157927	-4.376535	34234.296992			
HLA A*6901	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.252138
	-0.124403	-4.376541	17870.549145			
HLA B*7301	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.468584
	0.091985	-4.376599	29416.039768			
HLA B*5801	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.351030
	-0.025590	-4.376620	22440.372999			

HLA A*2402	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.545293
	0.168569	-4.376723	35098.821925			
HLA A*3301	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.452962
	0.076178	-4.376784	28376.738510			
HLA A*1101	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.442326
	0.065526	-4.376801	27690.217026			
HLA B*0802	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.467882
	0.090830	-4.377052	29368.496114			
HLA A*0212	1:86-949		PREAPYELN	0.811488	-0.746802	-4.442124
	0.064686	-4.377438	27677.337136			
HLA A*0216	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.441861
	0.063696	-4.378165	27660.572307			
HLA B*0801	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.343150
	0.035101	-4.378251	22036.869443			-
HLA A*3002	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.470405
	0.091985	-4.378420	29539.630247			
HLA B*1509	1:86-949		PREAPYELN	0.811488	-0.746802	-4.443325
	0.064686	-4.378638	27753.955699			
HLA A*3002	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.555994
	0.176828	-4.379166	35974.473287			
HLA A*0202	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.501195
	0.122021	-4.379174	31709.913389			
HLA A*2603	1:67-759		ENYIAQTRD	1.094922	-0.841398	-4.632837
	0.253524	-4.379312	42937.494670			
HLA A*2402	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.556262
	0.176828	-4.379434	35996.666571			
HLA A*2902	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.420161
	0.040514	-4.379647	26312.451829			
HLA B*1509	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.473918
	0.093374	-4.380543	29779.509141			
HLA B*4403	1:60-689		YPDQKSLEN	1.087218	-0.808773	-4.659153
	0.278445	-4.380708	45619.790024			

HLA B*0801	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.456896
	0.076178	-4.380717	28634.889801			
HLA B*0803	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.472719
	0.091985	-4.380734	29697.459422			
HLA A*0206	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.508711
	0.127871	-4.380840	32263.468778			
HLA A*0203	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.444542
	0.063696	-4.380846	27831.840314			
HLA B*1501	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.355682
	-0.025590	-4.381272	22682.036851			
HLA B*4001	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.414948
	0.033425	-4.381523	25998.471210			
HLA B*4402	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.424078
	0.042326	-4.381752	26550.818236			
HLA A*0206	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.551418
	0.169649	-4.381769	35597.348243			
HLA A*0219	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.424635
	0.042326	-4.382309	26584.882034			
HLA A*0203	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.458754
	0.076178	-4.382576	28757.687412			
HLA B*0802	1:84-929		STPREAPYE	0.746095	-0.647795	-4.481001
	0.098300	-4.382701	30269.220164			
HLA B*5301	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.601262
	0.218305	-4.382957	39926.567150			
HLA B*0702	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.446706
	0.063696	-4.383010	27970.858721			
HLA A*2403	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.357736
	-0.025590	-4.383326	22789.536979			
HLA B*4801	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.416792
	0.033425	-4.383367	26109.115329			
HLA A*2602	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.628629
	0.245175	-4.383454	42523.477467			

HLA A*3101	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.424099
	0.040514	-4.383585	26552.111000			
HLA B*4002	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.625687
	0.241980	-4.383708	42236.431453			
HLA B*0702	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.474620
	0.090830	-4.383790	29827.718170			
HLA B*0803	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.507073
	0.123229	-4.383844	32142.042226			
HLA A*2501	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.477670
	0.093374	-4.384295	30037.906596			
HLA B*0801	1:86-949		PREAPYELN	0.811488	-0.746802	-4.449011
	0.064686	-4.384324	28119.697502			
HLA B*1509	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.506387
	0.122021	-4.384367	32091.307922			
HLA A*0216	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.349308
	0.035101	-4.384409	22351.563052			-
HLA B*1517	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.493031
	0.108361	-4.384669	31119.355609			
HLA A*2501	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.476742
	0.091985	-4.384757	29973.786940			
HLA B*4601	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.359845
	-0.025590	-4.385436	22900.519746			
HLA B*4403	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.628166
	0.241980	-4.386186	42478.182290			
HLA A*0203	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.351613
	0.035101	-4.386714	22470.500388			-
HLA B*3901	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.510039
	0.123229	-4.386809	32362.235757			
HLA A*0203	1:86-949		PREAPYELN	0.811488	-0.746802	-4.451508
	0.064686	-4.386822	28281.871650			
HLA B*5301	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.544975
	0.157927	-4.387049	35073.197384			

HLA A*0203	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.361502
	-0.025590	-4.387092	22988.028456			
HLA A*0216	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.429818
	0.042326	-4.387492	26904.052480			
HLA A*2603	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.629867
	0.241980	-4.387887	42644.885379			
HLA B*0802	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.451609
	0.063696	-4.387913	28288.451492			
HLA A*0212	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.430476
	0.042326	-4.388149	26944.836785			
HLA B*4801	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.430595
	0.042326	-4.388269	26952.272008			
HLA B*5101	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.496980
	0.108361	-4.388619	31403.646480			
HLA B*5101	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.511977
	0.123229	-4.388748	32506.996350			
HLA B*0803	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.497269
	0.108361	-4.388908	31424.549934			
HLA B*3801	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.549630
	0.160477	-4.389153	35451.097865			
HLA A*2602	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.549632
	0.160477	-4.389156	35451.289652			
HLA A*2603	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.623657
	0.234162	-4.389495	42039.472946			
HLA B*7301	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.556044
	0.166493	-4.389551	35978.560495			
HLA A*3301	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.634824
	0.245175	-4.389650	43134.459933			
HLA B*5401	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.558407
	0.168569	-4.389838	36174.902154			
HLA A*0250	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.547999
	0.157927	-4.390073	35318.247574			

HLA B*5401	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.559951
	0.169649	-4.390302	36303.707276			
HLA B*0803	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.512383
	0.122021	-4.390363	32537.434241			
HLA A*1101	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.498787
	0.108361	-4.390426	31534.564212			
HLA B*5301	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.557047
	0.166493	-4.390554	36061.767853			
HLA A*0206	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.464964
	0.073876	-4.391088	29171.828225			
HLA A*3301	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.625269
	0.234162	-4.391107	42195.779025			
HLA B*1503	1:84-929		STPREAPYE	0.746095	-0.647795	-4.489410
	0.098300	-4.391110	30861.003162			
HLA A*6801	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.625358
	0.234162	-4.391196	42204.454347			
HLA A*2501	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.465175
	0.073876	-4.391299	29186.035155			
HLA B*2705	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.433779
	0.042326	-4.391453	27150.568847			
HLA B*2705	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.465762
	0.073876	-4.391887	29225.535164			
HLA B*2705	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.457809
	0.065526	-4.392284	28695.213858			
HLA A*0301	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.367061
	-0.025590	-4.392651	23284.161750			
HLA B*4001	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.435231
	0.042326	-4.392905	27241.493566			
HLA B*0702	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.426611
	0.033425	-4.393186	26706.111288			
HLA A*8001	1:86-949		PREAPYELN	0.811488	-0.746802	-4.458120
	0.064686	-4.393433	28715.712582			

HLA B*3801	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.560057
	0.166493	-4.393563	36312.546309			
HLA A*3002	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.436462
	0.042326	-4.394136	27318.826819			
HLA B*4501	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.648181
	0.253787	-4.394394	44481.680571			
HLA A*2602	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.470821
	0.076178	-4.394642	29567.929478			
HLA B*4002	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.571694
	0.176828	-4.394865	37298.700646			
HLA A*2402	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.561391
	0.166493	-4.394898	36424.299731			
HLA B*5101	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.435980
	0.040514	-4.395466	27288.546289			
HLA B*3901	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.487587
	0.092119	-4.395468	30731.717952			
HLA A*3101	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.351305
	0.044895	-4.396200	22454.581287			-
HLA A*0101	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.390255
	-0.005967	-4.396222	24561.490801			
HLA B*7301	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.488616
	0.092119	-4.396497	30804.624067			
HLA B*3801	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.566407
	0.169649	-4.396759	36847.443495			
HLA A*0211	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.462574
	0.065526	-4.397049	29011.769704			
HLA B*5101	1:84-929		STPREAPYE	0.746095	-0.647795	-4.495728
	0.098300	-4.397428	31313.225404			
HLA A*0250	1:84-929		STPREAPYE	0.746095	-0.647795	-4.495815
	0.098300	-4.397515	31319.493872			
HLA B*1509	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.489824
	0.091985	-4.397839	30890.401166			

HLA B*0803	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.491217	
	0.093374	-4.397843	30989.658685			
HLA A*0219	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.363179	-
	0.035101	-4.398280	23076.995126			
HLA B*4001	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.363217	-
	0.035101	-4.398318	23078.992717			
HLA A*0101	1:201-209	9	FNP GELLPE	0.811387	-0.836977	-4.372777
	-0.025590	-4.398367	23592.659759			
HLA B*4002	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.632966
	0.234162	-4.398804	42950.272361			
HLA B*1509	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.432292
	0.033425	-4.398867	27057.751830			
HLA B*4501	1:75-83 9	DKFLSAATS	1.204544	-0.986239	-4.617300	
	0.218305	-4.398994	41428.533108			
HLA A*0301	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.354110	-
	0.044895	-4.399005	22600.094038			
HLA B*3501	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.364279	-
	0.035101	-4.399380	23135.496138			
HLA A*2603	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.463272	
	0.063696	-4.399576	29058.421458			
HLA A*0201	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.393784
	-0.005967	-4.399751	24761.882017			
HLA B*3901	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.498084	
	0.098300	-4.399785	31483.596495			
HLA B*2705	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.498503	
	0.098300	-4.400203	31513.928549			
HLA B*1517	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.231439	-
	0.168791	-4.400230	17038.797256			
HLA B*1503	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.463949	
	0.063696	-4.400253	29103.731164			
HLA A*0211	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.522279	
	0.122021	-4.400259	33287.358570			

HLA B*4403	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.634535
	0.234162	-4.400374	43105.767105			
HLA B*5801	1:38-46	9	GQACQIQMS	0.965607	-1.010502	-4.355694
	0.044895	-4.400588	22682.650396			-
HLA B*1502	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.492946
	0.092119	-4.400827	31113.295518			
HLA B*3801	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.569556
	0.168569	-4.400987	37115.530419			
HLA A*3101	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.395081
	-0.005967	-4.401048	24835.937925			
HLA B*3901	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.434606
	0.033425	-4.401181	27202.320418			
HLA B*3801	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.578049
	0.176828	-4.401221	37848.533760			
HLA A*0211	1:23-31	9	AAPKTYCEE	0.685714	-0.594884	-4.492274
	0.090830	-4.401445	31065.193369			
HLA A*6901	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.366393
	0.035101	-4.401494	23248.415233			-
HLA B*3901	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.498519
	0.096880	-4.401639	31515.121980			
HLA A*0201	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.366539
	0.035101	-4.401640	23256.214364			-
HLA A*0219	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.466848
	0.064686	-4.402161	29298.671915			
HLA B*5101	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.476091
	0.073876	-4.402215	29928.903680			
HLA A*2902	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.465972
	0.063696	-4.402276	29239.610067			
HLA A*3201	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.570930
	0.168569	-4.402361	37233.179167			
HLA B*1503	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.443088
	0.040514	-4.402573	27738.795113			

HLA B*5101	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.466402
	0.063696	-4.402706	29268.571899			
HLA B*4403	1:146-154	9	TLWQADTDP	0.196026	0.057761	-4.657107
	0.253787	-4.403319	45405.334616			
HLA B*4501	1:114-122	9	LKVYQNAGG	0.762278	-0.528116	-4.637580
	0.234162	-4.403419	43409.052922			
HLA A*3301	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.526064
	0.122021	-4.404044	33578.736816			
HLA B*3501	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.378585
	-0.025590	-4.404175	23910.289336			
HLA B*4002	1:75-839		DKFLSAATS	1.204544	-0.986239	-4.622670
	0.218305	-4.404365	41944.061249			
HLA A*6801	1:137-145	9	AYRKPITYD	0.853411	-0.611431	-4.646616
	0.241980	-4.404637	44321.702064			
HLA B*2705	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.496021
	0.090830	-4.405192	31334.407700			
HLA A*2402	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.565794
	0.160477	-4.405318	36795.452316			
HLA B*0803	1:84-929		STPREAPYE	0.746095	-0.647795	-4.503751
	0.098300	-4.405452	31897.107018			
HLA A*2301	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.479338
	0.073876	-4.405462	30153.504700			
HLA A*2501	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.471293
	0.065526	-4.405768	29600.098769			
HLA A*0212	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.370822
	0.035101	-4.405923	23486.707169			
HLA A*2402	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.479899
	0.073876	-4.406024	30192.517296			
HLA A*2402	1:84-929		STPREAPYE	0.746095	-0.647795	-4.504442
	0.098300	-4.406142	31947.879970			
HLA B*2705	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.503187
	0.096880	-4.406308	31855.719537			

HLA A*8001	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.439803
	0.033425	-4.406378	27529.797236			
HLA A*0201	1:201-209	9	FNPCELLPE	0.811387	-0.836977	-4.380904
	-0.025590	-4.406494	24038.301234			
HLA B*4801	1:38-46 9		GQACQIQMS	0.965607	-1.010502	-4.361784
0.044895	-4.406678		23002.956823			-
HLA B*3901	1:23-31 9		AAPKTYCEE	0.685714	-0.594884	-4.497607
	0.090830	-4.406778	31449.039951			
HLA A*6901	1:38-46 9		GQACQIQMS	0.965607	-1.010502	-4.362005
0.044895	-4.406899		23014.657482			-
HLA B*1517	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.447415
	0.040514	-4.406901	28016.594484			
HLA A*0211	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.530228
	0.123229	-4.406998	33902.181296			
HLA A*2601	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.401044
	-0.005967	-4.407011	25179.294570			
HLA B*1502	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.576675
	0.169649	-4.407026	37728.940625			
HLA B*3901	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.480961
	0.073876	-4.407086	30266.436489			
HLA B*0803	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.504071
	0.096880	-4.407191	31920.583788			
HLA A*2602	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.450329
	0.042326	-4.408003	28205.168951			
HLA A*3201	1:84-92 9		STPREAPYE	0.746095	-0.647795	-4.506413
	0.098300	-4.408113	32093.217693			
HLA B*4402	1:76-84 9		KFLSAATSS	0.874409	-0.909510	-4.373054
0.035101	-4.408155		23607.725340			-
HLA B*1509	1:23-31 9		AAPKTYCEE	0.685714	-0.594884	-4.499069
	0.090830	-4.408239	31555.042678			
HLA B*5101	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.484469
	0.076178	-4.408291	30511.887336			

HLA A*8001	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.450991
	0.042326	-4.408665	28248.231279			
HLA A*1101	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.473394	
	0.064686	-4.408707	29743.604646			
HLA A*0202	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.578460
	0.169649	-4.408812	37884.383092			
HLA B*0702	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.451193
	0.042326	-4.408867	28261.376839			
HLA B*4601	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.373787	-
	0.035101	-4.408888	23647.606123			
HLA A*0219	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.442538
	0.033425	-4.409113	27703.702399			
HLA B*1801	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.449767
	0.040514	-4.409253	28168.724263			
HLA B*4601	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.099485	-
	0.310145	-4.409630	12574.328708			
HLA A*0206	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.099546	-
	0.310145	-4.409691	12576.097501			
HLA A*0206	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.531978	
	0.122021	-4.409957	34039.095265			
HLA B*1503	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.533679
	0.123229	-4.410450	34172.679661			
HLA B*0803	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.501618	
	0.090830	-4.410788	31740.806910			
HLA B*4501	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.587957	
	0.176828	-4.411129	38721.915954			
HLA A*2603	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.646863
	0.235698	-4.411165	44346.885643			
HLA A*0202	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.102440	-
	0.310145	-4.412585	12660.196931			
HLA B*4402	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.453169
	0.040514	-4.412655	28390.251047			

HLA A*0250	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.506611
	0.093374	-4.413236	32107.805151		
HLA B*0802	1:213-221 9	PTQVLVPRS	1.263904	-1.221578	-4.455808
	0.042326	-4.413482	28563.255491		
HLA B*3901	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.478537
	0.064686	-4.413850	30097.929630		
HLA B*0802	1:217-225 9	LVPRSAIDS	0.966010	-0.900484	-4.479935
	0.065526	-4.414409	30194.967468		
HLA A*2301	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-4.506655
	0.092119	-4.414537	32111.105614		
HLA B*5101	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.508032
	0.093374	-4.414658	32213.065613		
HLA B*5101	1:171-179 9	GQQVSIAPN	0.716617	-0.624632	-4.507048
	0.091985	-4.415063	32140.129549		
HLA B*7301	1:194-202 9	NDGVIFFFN	0.826929	-0.753053	-4.489013
	0.073876	-4.415137	30832.800728		
HLA B*4002	1:156-164 9	PVVFPIVQG	0.934938	-0.699240	-4.651153
	0.235698	-4.415455	44787.135385		
HLA B*7301	1:175-183 9	SIAPNAGLD	0.851313	-0.682744	-4.584153
	0.168569	-4.415584	38384.246689		
HLA A*0216	1:201-209 9	FNPGEELLPE	0.811387	-0.836977	-4.390074
	-0.025590	-4.415664	24551.261561		
HLA B*1517	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.479474
	0.063696	-4.415778	30162.967557		
HLA A*2403	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.371012
	0.044895	-4.415907	23497.001323		
HLA B*2705	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.492185
	0.076178	-4.416006	31058.807773		
HLA A*6802	1:201-209 9	FNPGEELLPE	0.811387	-0.836977	-4.390466
	-0.025590	-4.416056	24573.452458		
HLA B*4001	1:201-209 9	FNPGEELLPE	0.811387	-0.836977	-4.390640
	-0.025590	-4.416230	24583.291962		

HLA A*2301	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.544158
	0.127871	-4.416286	35007.229247			
HLA A*2603	1:187-195	9	YQNFAVTND	0.973541	-0.744146	-4.645961
	0.229395	-4.416565	44254.855162			
HLA B*4601	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.410827
	-0.005967	-4.416794	25752.939892			
HLA A*2301	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.540103
	0.123229	-4.416873	34681.871713			
HLA B*1801	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.510337
	0.093374	-4.416963	32384.478063			
HLA A*2602	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.583779
	0.166493	-4.417286	38351.243816			
HLA A*0211	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.493862
	0.076178	-4.417684	31179.009414			
HLA B*0702	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.411903
	-0.005967	-4.417870	25816.827819			
HLA A*2301	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.510234
	0.091985	-4.418249	32376.770337			
HLA B*5401	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.526757
	0.108361	-4.418396	33632.368487			
HLA B*0803	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.483553
	0.064686	-4.418866	30447.579488			
HLA A*2301	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.541031
	0.122021	-4.419010	34756.062861			
HLA B*5401	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.492904
	0.073876	-4.419028	31110.265915			
HLA B*4501	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.655892
	0.235698	-4.420194	45278.517290			
HLA A*2501	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.394975
	-0.025590	-4.420565	24829.892476			
HLA B*0802	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.497006
	0.076178	-4.420828	31405.515328			

HLA B*3901	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.497208
	0.076178	-4.421030	31420.130158			
HLA B*7301	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.519718	
	0.098300	-4.421419	33091.647965			
HLA A*0206	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.485115	
	0.063696	-4.421419	30557.314249			
HLA A*2402	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.591274
	0.169649	-4.421626	39018.836118			
HLA A*0201	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.297342
	-0.124403	-4.421745	19830.880140			
HLA B*5701	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.415906
	-0.005967	-4.421874	26055.919317			
HLA A*2402	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.518995
	0.096880	-4.422115	33036.555056			
HLA A*1101	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.464797
	0.042326	-4.422471	29160.625415			
HLA A*0206	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.397134
	-0.025590	-4.422724	24953.646335			
HLA B*3501	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.487476	
	0.064686	-4.422790	30723.904952			
HLA A*2403	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.417102
	-0.005967	-4.423070	26127.766647			
HLA B*1801	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.514011	
	0.090830	-4.423182	32659.647762			
HLA B*3801	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.521509	
	0.098300	-4.423209	33228.344402			
HLA A*2601	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.298890
	-0.124403	-4.423293	19901.705722			
HLA B*1517	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.497495
	0.073876	-4.423619	31440.874492			
HLA B*1801	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.227607	-
	0.196092	-4.423699	16889.116260			

HLA A*0101	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.388814	-
0.035101	-4.423916	24480.173371				
HLA A*2603	1:157-165	9 VVFPIVQGE	0.697577	-0.605458	-4.516786	
0.092119	-4.424668	32868.980845				
HLA A*2402	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.515708	
0.090830	-4.424878	32787.463844				
HLA A*0101	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.380413	-
0.044895	-4.425307	24011.137284				
HLA B*0802	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.490007	
0.064686	-4.425320	30903.438781				
HLA A*0250	1:163-171	9 QGELSKQTG	0.927669	-0.758020	-4.594977	
0.169649	-4.425328	39352.932367				
HLA B*5401	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.516178	
0.090830	-4.425348	32822.958351				
HLA B*5401	1:125-133	9 PTTTYKAFD	1.155703	-1.032474	-4.549031	
0.123229	-4.425801	35402.226022				
HLA A*3002	1:145-153	9 DTLWQADTD	1.026181	-0.950003	-4.502057	
0.076178	-4.425879	31772.933722				
HLA B*2705	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.489692	
0.063696	-4.425996	30881.044219				
HLA A*2501	1:213-221	9 PTQVLVPRS	1.263904	-1.221578	-4.468582	
0.042326	-4.426256	29415.880631				
HLA B*4801	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.391270	-
0.035101	-4.426371	24618.959905				
HLA A*3002	1:163-171	9 QGELSKQTG	0.927669	-0.758020	-4.596272	
0.169649	-4.426623	39470.412521				
HLA A*0206	1:125-133	9 PTTTYKAFD	1.155703	-1.032474	-4.549874	
0.123229	-4.426645	35471.049274				
HLA B*4501	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.585015	
0.157927	-4.427089	38460.531601				
HLA A*0212	1:201-209	9 FNPGELLPE	0.811387	-0.836977	-4.401948	
-0.025590	-4.427538	25231.792842				

HLA A*0202	1:201-209	9	FNP GELLPE	0.811387	-0.836977	-4.401965
	-0.025590	-4.427555	25232.748369			
HLA B*1801	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.421905
	-0.005967	-4.427872	26418.285909			
HLA A*1101	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.461667
	0.033425	-4.428243	28951.250038			
HLA B*4801	1:201-209	9	FNP GELLPE	0.811387	-0.836977	-4.402709
	-0.025590	-4.428300	25276.058015			
HLA B*1502	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.594848
	0.166493	-4.428355	39341.224884			
HLA B*3801	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.550379
	0.122021	-4.428359	35512.330582			
HLA A*1101	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.492150
	0.063696	-4.428454	31056.287505			
HLA B*0801	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.422567
	-0.005967	-4.428535	26458.620107			
HLA B*0803	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.494231
	0.065526	-4.428706	31205.502636			
HLA B*3901	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.494304
	0.065526	-4.428778	31210.736442			
HLA A*2601	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.383909
	0.044895	-4.428803	24205.204965			-
HLA B*0803	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.492608
	0.063696	-4.428912	31089.066951			
HLA A*2301	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.537617
	0.108361	-4.429256	34483.931389			
HLA B*5401	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.521544
	0.092119	-4.429425	33231.040936			
HLA A*2601	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.394597
	0.035101	-4.429698	24808.275250			-
HLA A*0250	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.557576
	0.127871	-4.429704	36105.689867			

HLA A*6801	1:29-379		CEELKGTDT	0.714161	-0.468986	-4.674892	
	0.245175	-4.429718	47303.413575				
HLA A*6802	1:54-629		ISLPSYYPD	0.496117	-0.692209	-4.233859	-
0.196092	-4.429951		17134.005614				
HLA A*2602	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.598666	
	0.168569	-4.430097	39688.601007				
HLA B*1502	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.606988	
	0.176828	-4.430159	40456.440234				
HLA A*2602	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.522747	
	0.092119	-4.430628	33323.213970				
HLA A*0211	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.473203	
	0.042326	-4.430877	29730.573823				
HLA A*3301	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.597374	
	0.166493	-4.430880	39570.685506				
HLA B*1509	1:84-929		STPREAPYE	0.746095	-0.647795	-4.529685	
	0.098300	-4.431385	33859.840731				
HLA A*0202	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.554792	
	0.123229	-4.431562	35874.966789				
HLA B*5301	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.601220	
	0.169649	-4.431571	39922.679370				
HLA A*0219	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.425685	
	-0.005967	-4.431652	26649.247933				
HLA A*3201	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.608482	
	0.176828	-4.431654	40595.878026				
HLA A*2402	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.554883	
	0.123229	-4.431654	35882.536691				
HLA B*1801	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.396739	-
0.035101	-4.431840		24930.977233				
HLA B*5301	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.554155	
	0.122021	-4.432134	35822.409755				
HLA A*2301	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.525745	
	0.093374	-4.432371	33554.040517				

HLA B*3901	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.473241
	0.040514	-4.432726	29733.147360			
HLA A*2402	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.524915
	0.092119	-4.432797	33490.023818			
HLA B*3501	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.475264
	0.042326	-4.432938	29871.964869			
HLA B*1517	1:86-949		PREAPYELN	0.811488	-0.746802	-4.497767
	0.064686	-4.433081	31460.611315			
HLA B*5401	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.561224
	0.127871	-4.433353	36410.311766			
HLA A*0216	1:86-949		PREAPYELN	0.811488	-0.746802	-4.498345
	0.064686	-4.433659	31502.507999			
HLA A*0202	1:84-929		STPREAPYE	0.746095	-0.647795	-4.533266
	0.098300	-4.434966	34140.157954			
HLA B*5701	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.399935
0.035101	-4.435036		25115.082073			-
HLA B*0802	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.475612
	0.040514	-4.435097	29895.891841			
HLA A*8001	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.409934
	-0.025590	-4.435524	25700.052463			
HLA B*2705	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.410164
	-0.025590	-4.435755	25713.681450			
HLA B*7301	1:10-189		TAVVLLCCS	1.085894	-0.909066	-4.612824
	0.176828	-4.435995	41003.769854			
HLA B*5301	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.605009
	0.168569	-4.436440	40272.575107			
HLA B*0802	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.469888
	0.033425	-4.436463	29504.493813			
HLA A*2402	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.530122
	0.093374	-4.436748	33893.928984			
HLA B*3801	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.529137
	0.092119	-4.437019	33817.187149			

HLA B*4403	1:156-164	9	PVVFPIVQG	0.934938	-0.699240	-4.673527
	0.235698	-4.437829	47154.965478			
HLA A*0203	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.431944
	-0.005967	-4.437911	27036.096343			
HLA A*3002	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.478468
	0.040514	-4.437954	30093.208033			
HLA B*1801	1:84-92	9	STPREAPYE	0.746095	-0.647795	-4.536376
	0.098300	-4.438076	34385.571293			
HLA A*0202	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.566353
	0.127871	-4.438482	36842.858947			
HLA B*5701	1:201-209	9	FNPPELLPE	0.811387	-0.836977	-4.413268
	-0.025590	-4.438858	25898.101528			
HLA A*2603	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.599446
	0.160477	-4.438969	39759.949090			
HLA A*2602	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.566959
	0.127871	-4.439088	36894.318323			
HLA B*4001	1:38-46	9	GQACQIQMS	0.965607	-1.010502	-4.394214
	0.044895	-4.439108	24786.408659			-
HLA B*2705	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.404081
	0.035101	-4.439183	25356.040848			-
HLA B*3801	1:71-79	9	AQTRDKFLS	0.986232	-0.892858	-4.532582
	0.093374	-4.439208	34086.454147			
HLA B*0801	1:38-46	9	GQACQIQMS	0.965607	-1.010502	-4.394378
	0.044895	-4.439273	24795.796857			-
HLA B*1509	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.563041
	0.123229	-4.439811	36562.892834			
HLA A*2402	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.568130
	0.127871	-4.440258	36993.850236			
HLA B*5101	1:86-94	9	PREAPYELN	0.811488	-0.746802	-4.505170
	0.064686	-4.440484	32001.503614			
HLA B*0803	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.514730
	0.073876	-4.440855	32713.758170			

HLA B*7301	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.562900	
	0.122021	-4.440879	36551.026688				
HLA A*3001	1:57-659		PSYYPDQKS	0.896699	-1.065490	-4.272280	-
	0.168791	-4.441071	18718.887452				
HLA B*5401	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.481661	
	0.040514	-4.441147	30315.269785				
HLA A*2301	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.406147	-
	0.035101	-4.441248	25476.903381				
HLA B*0702	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.406203	-
	0.035101	-4.441304	25480.211449				
HLA B*4601	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.396525	-
	0.044895	-4.441420	24918.706736				
HLA A*0250	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.532286	
	0.090830	-4.441456	34063.227168				
HLA B*1503	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.515499	
	0.073876	-4.441623	32771.681131				
HLA B*1517	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.475327	
	0.033425	-4.441902	29876.328496				
HLA B*5401	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.507908	
	0.065526	-4.442382	32203.830674				
HLA B*7301	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.612272	
	0.169649	-4.442623	40951.673902				
HLA B*5301	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.603167	
	0.160477	-4.442691	40102.126618				
HLA A*6802	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.437644	
	-0.005967	-4.443611	27393.267343				
HLA B*1503	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-4.319657	
	-0.124403	-4.444060	20876.485980				
HLA A*2301	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.534957	
	0.090830	-4.444128	34273.397295				
HLA B*0803	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.477594	
	0.033425	-4.444170	30032.706990				

HLA A*2301	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.542473	
	0.098300	-4.444173	34871.703053			
HLA A*6901	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.248475	-
	0.196092	-4.444567	17720.462433			
HLA B*1503	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.553062	
	0.108361	-4.444701	35732.408208			
HLA B*2705	1:188-196	9 QNFAVTNDG	0.673013	-0.639588	-4.478377	
	0.033425	-4.444952	30086.859467			
HLA A*3201	1:163-171	9 QGELSKQTG	0.927669	-0.758020	-4.614889	
	0.169649	-4.445240	41199.219117			
HLA A*2402	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.410148	-
	0.035101	-4.445249	25712.707711			
HLA A*3201	1:144-152	9 YDTLWQADT	0.627145	-0.460652	-4.612121	
	0.166493	-4.445628	40937.497539			
HLA A*0202	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.554110	
	0.108361	-4.445749	35818.727834			
HLA A*0216	1:188-196	9 QNFAVTNDG	0.673013	-0.639588	-4.479335	
	0.033425	-4.445911	30153.341573			
HLA B*5101	1:188-196	9 QNFAVTNDG	0.673013	-0.639588	-4.479998	
	0.033425	-4.446573	30199.378279			
HLA B*4403	1:10-18 9	TAVVLLCCS	1.085894	-0.909066	-4.623638	
	0.176828	-4.446810	42037.653555			
HLA A*8001	1:204-212	9 GELLPEAAG	0.791497	-0.797464	-4.442152	
	-0.005967	-4.448120	27679.133971			
HLA A*2402	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.570261	
	0.122021	-4.448240	37175.816599			
HLA B*3501	1:204-212	9 GELLPEAAG	0.791497	-0.797464	-4.442322	
	-0.005967	-4.448289	27689.917426			
HLA A*2602	1:217-225	9 LVPRSAIDS	0.966010	-0.900484	-4.513828	
	0.065526	-4.448303	32645.869233			
HLA B*1502	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.541785	
	0.093374	-4.448411	34816.471788			

HLA A*3002	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.522326
	0.073876	-4.448451	33290.960383			
HLA A*3301	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.617142
	0.168569	-4.448573	41413.519537			
HLA A*2501	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.482016
	0.033425	-4.448591	30340.044243			
HLA B*3801	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.571917
	0.123229	-4.448688	37317.874847			
HLA B*5101	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.491395
	0.042326	-4.449069	31002.402752			
HLA A*0206	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.482573
	0.033425	-4.449148	30378.969489			
HLA A*1101	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.490272
	0.040514	-4.449758	30922.336369			
HLA A*0211	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.414748
	0.035101	-4.449849	25986.518807			-
HLA A*0216	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.444274
	-0.005967	-4.450241	27814.680948			
HLA A*0250	1:39-47	9	QACQIQMSD	0.891798	-0.769777	-4.572782
	0.122021	-4.450761	37392.242738			
HLA A*0206	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.559317
	0.108361	-4.450955	36250.718247			
HLA A*2603	1:10-18	9	TAVVLLCCS	1.085894	-0.909066	-4.628142
	0.176828	-4.451314	42475.884330			
HLA B*1509	1:28-36	9	YCEELKGTD	0.955740	-0.847379	-4.560080
	0.108361	-4.451719	36314.510830			
HLA A*1101	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.528078
	0.076178	-4.451899	33734.778520			
HLA B*1509	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.526140
	0.073876	-4.452264	33584.550351			
HLA A*6802	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.236622
	-0.215742	-4.452364	17243.360155			

HLA A*2301	1:86-94 9		PREAPYELN	0.811488	-0.746802	-4.517082	
	0.064686	-4.452396	32891.393493				
HLA A*1101	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.256491	-
	0.196092	-4.452584	18050.593828				
HLA B*5401	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.256689	-
	0.196092	-4.452781	18058.798435				
HLA A*3002	1:23-31 9		AAPKTYCEE	0.685714	-0.594884	-4.543648	
	0.090830	-4.452818	34966.156765				
HLA B*1801	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.518750	
	0.065526	-4.453225	33017.972977				
HLA B*5401	1:71-79 9		AQTRDKFLS	0.986232	-0.892858	-4.547019	
	0.093374	-4.453645	35238.662103				
HLA B*2705	1:50-58 9		YNINISLPS	0.643875	-0.954020	-4.143669	-
	0.310145	-4.453814	13920.961234				
HLA A*3101	1:201-209	9	FNP GELLPE	0.811387	-0.836977	-4.428861	
	-0.025590	-4.454452	26844.879636				
HLA B*1503	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.530841	
	0.076178	-4.454662	33950.084346				
HLA B*5401	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.546810	
	0.091985	-4.454825	35221.699471				
HLA B*1502	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.488947	
	0.033425	-4.455522	30828.130625				
HLA B*5701	1:38-46 9		GQACQIQMS	0.965607	-1.010502	-4.410683	-
	0.044895	-4.455578	25744.442740				
HLA B*4403	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.622539	
	0.166493	-4.456046	41931.356062				
HLA A*2602	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.625741	
	0.169649	-4.456093	42241.687152				
HLA A*3002	1:28-36 9		YCEELKGTD	0.955740	-0.847379	-4.564812	
	0.108361	-4.456451	36712.339530				
HLA A*0301	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.332072	
	-0.124403	-4.456475	21481.869646				

HLA A*2501	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.521180	
	0.064686	-4.456493	33203.187298			
HLA A*0219	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.412220	-
	0.044895	-4.457115	25835.689640			
HLA A*6802	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.412432	-
	0.044895	-4.457326	25848.271842			
HLA B*1509	1:145-153	9 DTLWQADTD	1.026181	-0.950003	-4.533646	
	0.076178	-4.457468	34170.091573			
HLA B*4002	1:43-51 9	IQMSDPAYN	0.678035	-0.520108	-4.615528	
	0.157927	-4.457601	41259.887975			
HLA A*0211	1:194-202	9 NDGVIFFFN	0.826929	-0.753053	-4.532382	
	0.073876	-4.458506	34070.783415			
HLA A*3201	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.522355	
	0.063696	-4.458659	33293.121658			
HLA B*1502	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.414302	-
	0.044895	-4.459196	25959.821535			
HLA B*0803	1:206-214	9 LLPEAAGPT	0.415766	-0.375252	-4.500002	
	0.040514	-4.459487	31622.887093			
HLA B*3801	1:171-179	9 GQQVSIAPN	0.716617	-0.624632	-4.552073	
	0.091985	-4.460088	35651.117992			
HLA A*0250	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.568684	
	0.108361	-4.460323	37041.111700			
HLA A*0250	1:125-133	9 PTTTYKAFD	1.155703	-1.032474	-4.583641	
	0.123229	-4.460412	38339.004687			
HLA B*3901	1:213-221	9 PTQVLVPRS	1.263904	-1.221578	-4.502804	
	0.042326	-4.460478	31827.641166			
HLA B*3801	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.568985	
	0.108361	-4.460624	37066.770286			
HLA A*0211	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.524396	
	0.063696	-4.460700	33450.007557			
HLA A*6801	1:144-152	9 YDTLWQADT	0.627145	-0.460652	-4.627510	
	0.166493	-4.461017	42414.115822			

HLA A*0202	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.552261	
	0.090830	-4.461432	35666.550819				
HLA A*3201	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.589493	
	0.127871	-4.461622	38859.159351				
HLA B*4002	1:197-205	9	VIFFNPGE	0.720374	-0.559897	-4.622184	
	0.160477	-4.461708	41897.116606				
HLA A*2902	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.417135	-
0.044895	-4.462030		26129.745598				
HLA B*4002	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.555602	
	0.093374	-4.462228	35941.986772				
HLA B*1503	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.504675	
	0.042326	-4.462349	31964.995167				
HLA B*5401	1:84-929		STPREAPYE	0.746095	-0.647795	-4.560684	
	0.098300	-4.462384	36365.035517				
HLA B*0803	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.538632	
	0.076178	-4.462453	34564.617071				
HLA B*0702	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.437533	
	-0.025590	-4.463124	27386.303086				
HLA B*0803	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.505734	
	0.042326	-4.463408	32043.080501				
HLA B*5301	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.537379	
	0.073876	-4.463504	34465.094557				
HLA A*6802	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.428720	-
0.035101	-4.463822		26836.167381				
HLA A*0219	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.438384	
	-0.025590	-4.463974	27439.988421				
HLA B*3901	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.458507	
	-0.005967	-4.464475	28741.356581				
HLA A*8001	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.429425	-
0.035101	-4.464526		26879.756950				
HLA A*2402	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.530860	
	0.065526	-4.465334	33951.553707				

HLA B*5401	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.529067	
	0.063696	-4.465371	33811.699177				
HLA B*7301	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.589089	
	0.123229	-4.465860	38823.017685				
HLA B*4402	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.440296	
	-0.025590	-4.465887	27561.090971				
HLA A*6801	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.531621	
	0.065526	-4.466095	34011.116315				
HLA A*1101	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.460589	
	-0.005967	-4.466556	28879.449239				
HLA A*2603	1:43-519		IQMSDPAYN	0.678035	-0.520108	-4.624496	
	0.157927	-4.466569	42120.743514				
HLA B*1501	1:54-629		ISLPSYYPD	0.496117	-0.692209	-4.270581	-
	0.196092	-4.466674	18645.814335				
HLA B*3801	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.557853	
	0.090830	-4.467023	36128.745903				
HLA B*5301	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.557900	
	0.090830	-4.467070	36132.655165				
HLA A*2902	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.461200	
	-0.005967	-4.467167	28920.098821				
HLA A*2603	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.500706	
	0.033425	-4.467282	31674.251657				
HLA B*1801	1:86-949		PREAPYELN	0.811488	-0.746802	-4.532467	
	0.064686	-4.467780	34077.419551				
HLA A*2402	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.576426	
	0.108361	-4.468064	37707.311233				
HLA A*2402	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.560057	
	0.091985	-4.468072	36312.546309				
HLA A*0202	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.534083	
	0.065526	-4.468558	34204.492169				
HLA B*3501	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.423681	-
	0.044895	-4.468575	26526.554679				

HLA B*5401	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.443482
	-0.025590	-4.469073	27764.017293			
HLA A*2301	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.545300
	0.076178	-4.469121	35099.391572			
HLA B*1502	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.532880
	0.063696	-4.469184	34109.881494			
HLA A*0206	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.545495
	0.076178	-4.469316	35115.155468			
HLA B*5401	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.545880
	0.076178	-4.469701	35146.324225			
HLA B*1517	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.463836
	-0.005967	-4.469803	29096.174643			
HLA A*6801	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.560954
	0.090830	-4.470125	36387.666600			
HLA B*5301	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.593405
	0.123229	-4.470176	39210.763037			
HLA B*1517	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.435581
0.035101	-4.470682		27263.461064			-
HLA B*3801	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.567660
	0.096880	-4.470780	36953.845356			
HLA A*3301	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.640482
	0.169649	-4.470833	43700.049076			
HLA A*0101	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.346489
	-0.124403	-4.470891	22206.929657			
HLA A*2602	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.592980
	0.122021	-4.470959	39172.387044			
HLA A*2603	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.547729
	0.076178	-4.471551	35296.281610			
HLA B*4002	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.599775
	0.127871	-4.471903	39790.074065			
HLA B*1801	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.514324
	0.042326	-4.471998	32683.155333			

HLA B*5801	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.347720
	-0.124403	-4.472123	22269.970771			
HLA B*4501	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.633229
	0.160477	-4.472753	42976.304142			
HLA B*7301	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.466839
	-0.005967	-4.472806	29298.037911			
HLA A*2301	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.536665
	0.063696	-4.472969	34408.459629			
HLA A*2301	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.538655
	0.065526	-4.473130	34566.487029			
HLA B*3501	1:54-629		ISLPSYYPD	0.496117	-0.692209	-4.277172
	0.196092	-4.473264	18930.917413			-
HLA B*3801	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.539130
	0.065526	-4.473604	34604.281850			
HLA A*2603	1:144-152	9	YDTLWQADT	0.627145	-0.460652	-4.640247
	0.166493	-4.473754	43676.414228			
HLA B*1502	1:39-479		QACQIQMSD	0.891798	-0.769777	-4.595809
	0.122021	-4.473788	39428.369409			
HLA A*0250	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.571012
	0.096880	-4.474133	37240.229792			
HLA B*1502	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.582631
	0.108361	-4.474269	38249.922142			
HLA B*5301	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.602399
	0.127871	-4.474528	40031.247315			
HLA B*3801	1:86-949		PREAPYELN	0.811488	-0.746802	-4.539818
	0.064686	-4.475132	34659.176507			
HLA B*1502	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.572112
	0.096880	-4.475232	37334.635112			
HLA A*2603	1:84-929		STPREAPYE	0.746095	-0.647795	-4.573540
	0.098300	-4.475241	37457.638846			
HLA A*0206	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.469322
	-0.005967	-4.475289	29466.051413			

HLA B*4403	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.567629
	0.091985	-4.475644	36951.246537			
HLA B*4501	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.645660
	0.169649	-4.476012	44224.220795			
HLA A*2603	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.599885
	0.123229	-4.476656	39800.192567			
HLA A*2603	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.647197
	0.169649	-4.477548	44380.966198			
HLA A*3201	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.586401
	0.108361	-4.478040	38583.487379			
HLA B*1801	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.511486
	0.033425	-4.478061	32470.262539			
HLA A*0250	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.570091
	0.091985	-4.478106	37161.338991			
HLA B*1503	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.472698
	-0.005967	-4.478665	29696.013518			
HLA A*1101	1:76-849		KFLSAATSS	0.874409	-0.909510	-4.443628
	0.035101	-4.478729	27773.331271			-
HLA B*5301	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.587668
	0.108361	-4.479307	38696.158328			
HLA A*0211	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.512893
	0.033425	-4.479468	32575.653860			
HLA B*3501	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.355207
	-0.124403	-4.479610	22657.263514			
HLA B*2705	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.474545
	-0.005967	-4.480512	29822.554948			
HLA B*4002	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.650493
	0.169649	-4.480844	44719.102653			
HLA A*2602	1:71-799		AQTRDKFLS	0.986232	-0.892858	-4.574238
	0.093374	-4.480864	37517.871799			
HLA A*2402	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.557207
	0.076178	-4.481028	36075.036425			

HLA B*5401	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.514902
	0.033425	-4.481477	32726.680101			
HLA B*5301	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.574903	
	0.093374	-4.481529	37575.355602			
HLA B*4501	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.650629
	0.168569	-4.482060	44733.136528			
HLA B*4002	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.651275
	0.168569	-4.482706	44799.736416			
HLA A*3301	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.591476	
	0.108361	-4.483115	39036.993874			
HLA A*0211	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.547980	
	0.064686	-4.483294	35316.719065			
HLA A*2402	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.526039
	0.042326	-4.483712	33576.738646			
HLA B*4403	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.581355
	0.096880	-4.484475	38137.725200			
HLA A*2301	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.527500
	0.042326	-4.485174	33689.913034			
HLA A*2603	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.607815	
	0.122021	-4.485794	40533.554063			
HLA A*6801	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.519267
	0.033425	-4.485843	33057.293558			
HLA A*3201	1:125-133	9	PTTTYKAFD	1.155703	-1.032474	-4.609429
	0.123229	-4.486200	40684.481114			
HLA B*4001	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.362216
	-0.124403	-4.486619	23025.865817			
HLA B*4403	1:197-205	9	VIFFFNPGE	0.720374	-0.559897	-4.647305
	0.160477	-4.486828	44392.011993			
HLA B*4501	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.609048	
	0.122021	-4.487028	40648.840772			
HLA A*6801	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.363153
	-0.124403	-4.487556	23075.621883			

HLA A*0203	1:50-589	YNINISLPS	0.643875	-0.954020	-4.177553	-
0.310145	-4.487698	15050.589019				
HLA B*4501	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.584898
0.096880	-4.488018	38450.129648				
HLA A*1101	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.462680
-0.025590	-4.488270	29018.833334				
HLA B*3901	1:76-849	KFLSAATSS	0.874409	-0.909510	-4.453169	-
0.035101	-4.488270	28390.251047				
HLA B*1801	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.462988
-0.025590	-4.488578	29039.406139				
HLA A*3201	1:71-799	AQTRDKFLS	0.986232	-0.892858	-4.582024	
0.093374	-4.488650	38196.572000				
HLA A*2902	1:54-629	ISLPSYYPD	0.496117	-0.692209	-4.292688	-
0.196092	-4.488780	19619.487557				
HLA A*3002	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.364434
-0.124403	-4.488837	23143.758203				
HLA B*4403	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.657776
0.168569	-4.489207	45475.395393				
HLA A*2501	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.483529
-0.005967	-4.489497	30445.932353				
HLA A*2603	1:175-183	9	SIAPNAGLD	0.851313	-0.682744	-4.658460
0.168569	-4.489891	45547.042677				
HLA B*1517	1:38-469	GQACQIQMS	0.965607	-1.010502	-4.445369	-
0.044895	-4.490264	27884.890453				
HLA B*5401	1:86-949	PREAPYELN	0.811488	-0.746802	-4.555017	
0.064686	-4.490331	35893.603269				
HLA B*5301	1:127-135	9	TTYKAFDWD	0.819008	-0.722128	-4.587611
0.096880	-4.490732	38691.134448				
HLA B*0802	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.484887
-0.005967	-4.490855	30541.283223				
HLA B*4403	1:39-479	QACQIQMSD	0.891798	-0.769777	-4.612998	
0.122021	-4.490977	41020.188253				

HLA A*3201	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.556688
	0.065526	-4.491162	36031.931408			
HLA A*2301	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.524819
	0.033425	-4.491394	33482.596372			
HLA A*3002	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.556986
	0.065526	-4.491460	36056.695866			
HLA A*8001	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.446880
0.044895	-4.491774		27982.058586			-
HLA A*3201	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.584148
	0.091985	-4.492163	38383.831382			
HLA A*2403	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.368562
	-0.124403	-4.492965	23364.792501			
HLA B*3901	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.448172
0.044895	-4.493067		28065.441484			-
HLA A*1101	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.448520
0.044895	-4.493414		28087.921460			-
HLA B*3901	1:201-209	9	FNPCELLPE	0.811387	-0.836977	-4.467943
	-0.025590	-4.493533	29372.627293			
HLA B*3801	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.558729
	0.063696	-4.495033	36201.723295			
HLA A*2501	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.370848
	-0.124403	-4.495251	23488.104876			
HLA A*2602	1:30-389		EELKGTDTG	0.811906	-0.748210	-4.559138
	0.063696	-4.495442	36235.816771			
HLA A*0206	1:86-949		PREAPYELN	0.811488	-0.746802	-4.560482
	0.064686	-4.495795	36348.120603			
HLA B*4601	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.371691
	-0.124403	-4.496094	23533.766630			
HLA B*4501	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.451259
0.044895	-4.496154		28265.658109			-
HLA A*2603	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.562051
	0.065526	-4.496526	36479.713289			

HLA B*7301	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.605028	
	0.108361	-4.496667	40274.318106				
HLA A*3002	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.530557	
	0.033425	-4.497132	33927.868009				
HLA B*3801	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.539778	
	0.042326	-4.497452	34655.989114				
HLA A*3201	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.588455	
	0.090830	-4.497625	38766.351460				
HLA B*1502	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.563454	
	0.065526	-4.497928	36597.722423				
HLA B*3801	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.572384	
	0.073876	-4.498509	37358.071708				
HLA A*3201	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.541019	
	0.042326	-4.498693	34755.122742				
HLA A*2402	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.539635	
	0.040514	-4.499120	34644.554412				
HLA B*5301	1:157-165	9	VVFPIVQGE	0.697577	-0.605458	-4.591310	
	0.092119	-4.499191	39022.002561				
HLA B*1517	1:201-209	9	FNPCELLPE	0.811387	-0.836977	-4.473704	
	-0.025590	-4.499294	29764.852299				
HLA B*4403	1:163-171	9	QGELSKQTG	0.927669	-0.758020	-4.669155	
	0.169649	-4.499506	46682.600372				
HLA A*2501	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.454866	-
	0.044895	-4.499760	28501.358512				
HLA A*3301	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.591751	
	0.091985	-4.499766	39061.710435				
HLA B*5701	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.375545	
	-0.124403	-4.499947	23743.492333				
HLA B*5101	1:201-209	9	FNPCELLPE	0.811387	-0.836977	-4.474409	
	-0.025590	-4.499999	29813.198886				
HLA B*1509	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.566144	
	0.065526	-4.500619	36825.124112				

HLA A*0212	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.305330	-
0.196092	-4.501423	20199.017182				
HLA B*5301	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.599824	
0.098300	-4.501524	39794.594780				
HLA A*6801	1:163-171	9 QGELSKQTG	0.927669	-0.758020	-4.671263	
0.169649	-4.501614	46909.686193				
HLA B*1502	1:125-133	9 PTTYKAFD	1.155703	-1.032474	-4.625135	
0.123229	-4.501906	42182.769385				
HLA B*0803	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.457464	-
0.044895	-4.502359	28672.402954				
HLA A*3301	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.600769	
0.098300	-4.502469	39881.233263				
HLA B*0702	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.458127	-
0.044895	-4.503021	28716.178632				
HLA B*2705	1:196-204	9 GVIFFFNPG	0.529052	-0.653455	-4.378672	
-0.124403	-4.503075	23915.075840				
HLA B*0803	1:204-212	9 GELLPEAAG	0.791497	-0.797464	-4.497525	
-0.005967	-4.503492	31443.085762				
HLA B*1502	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.468981	-
0.035101	-4.504082	29442.946306				
HLA A*2402	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.568947	
0.064686	-4.504261	37063.561991				
HLA B*5401	1:213-221	9 PTQVLVPRS	1.263904	-1.221578	-4.546669	
0.042326	-4.504343	35210.268597				
HLA A*0202	1:213-221	9 PTQVLVPRS	1.263904	-1.221578	-4.546709	
0.042326	-4.504383	35213.506968				
HLA A*2301	1:206-214	9 LLPEAAGPT	0.415766	-0.375252	-4.545403	
0.040514	-4.504888	35107.747455				
HLA A*0206	1:213-221	9 PTQVLVPRS	1.263904	-1.221578	-4.547365	
0.042326	-4.505039	35266.696925				
HLA B*4403	1:167-175	9 SKQTGQQVS	1.053333	-0.925462	-4.634986	
0.127871	-4.507115	43150.564271				

HLA B*1502	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.605632	
	0.098300	-4.507332	40330.352106			
HLA A*2602	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.598269	
	0.090830	-4.507439	39652.331442			
HLA B*1509	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.549785
	0.042326	-4.507459	35463.758034			
HLA B*4801	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.383505
	-0.124403	-4.507908	24182.692475			
HLA B*3801	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.584618
	0.076178	-4.508440	38425.384312			
HLA B*0802	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.473417	-
	0.035101	-4.508518	29745.213785			
HLA B*5301	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.585168
	0.076178	-4.508990	38474.058348			
HLA B*0803	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.473950	-
	0.035101	-4.509052	29781.764680			
HLA B*5301	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.573024	
	0.063696	-4.509328	37413.084197			
HLA B*5801	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.340826	-
	0.168791	-4.509617	21919.278668			
HLA A*0211	1:201-209	9	FNP GELLPE	0.811387	-0.836977	-4.484107
	-0.025590	-4.509698	30486.477770			
HLA A*2602	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.618658	
	0.108361	-4.510296	41558.279395			
HLA A*3301	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.638393
	0.127871	-4.510522	43490.383021			
HLA A*2602	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.386599
	-0.124403	-4.511002	24355.605157			
HLA A*0211	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.505041
	-0.005967	-4.511008	31991.983179			
HLA B*4002	1:39-47 9	QACQIQMSD	0.891798	-0.769777	-4.633177	
	0.122021	-4.511157	42971.189512			

HLA A*0202	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.587830
	0.076178	-4.511652	38710.605617			
HLA B*5101	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.506792
	-0.005967	-4.512759	32121.182811			
HLA B*5301	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.604974
	0.091985	-4.512989	40269.307187			
HLA A*0216	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-4.388728
	-0.124403	-4.513130	24475.273765			
HLA B*1503	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.487646
	-0.025590	-4.513236	30735.874613			
HLA A*2501	1:76-84	9	KFLSAATSS	0.874409	-0.909510	-4.478440
	0.035101	-4.513541	30091.254485			-
HLA A*3201	1:54-62	9	ISLPSYYPD	0.496117	-0.692209	-4.317562
	0.196092	-4.513654	20775.986649			-
HLA B*1502	1:23-31	9	AAPKTYCEE	0.685714	-0.594884	-4.604702
	0.090830	-4.513872	40244.044226			
HLA A*3201	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.554439
	0.040514	-4.513925	35845.866658			
HLA A*0250	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.590226
	0.076178	-4.514048	38924.804544			
HLA B*0801	1:50-58	9	YNINISLPS	0.643875	-0.954020	-4.204305
	0.310145	-4.514450	16006.807903			-
HLA A*0250	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.557284
	0.042326	-4.514958	36081.477344			
HLA A*0202	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.579008
	0.063696	-4.515312	37932.166624			
HLA B*0702	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-4.391058
	-0.124403	-4.515461	24606.976097			
HLA A*2602	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.607852
	0.091985	-4.515867	40537.062728			
HLA A*2402	1:30-38	9	EELKGTDTG	0.811906	-0.748210	-4.579936
	0.063696	-4.516240	38013.310774			

HLA B*7301	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.582374
	0.065526	-4.516849	38227.373657			
HLA A*3001	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.302997
	-0.215742	-4.518739	20090.798596			
HLA B*0802	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.493397
	-0.025590	-4.518987	31145.629648			
HLA B*5301	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.585560
	0.065526	-4.520035	38508.833500			
HLA B*5101	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.485639	-
0.035101	-4.520740	30594.201000				
HLA A*2603	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.561293
	0.040514	-4.520778	36416.024511			
HLA B*7301	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.611994	
	0.090830	-4.521165	40925.540051			
HLA A*0250	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.595236
	0.073876	-4.521360	39376.357787			
HLA B*1509	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.516180
	-0.005967	-4.522147	32823.135920			
HLA B*3801	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.555745
	0.033425	-4.522321	35953.849702			
HLA A*3001	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.212335	-
0.310145	-4.522480	16305.543251				
HLA A*2603	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.650458
	0.127871	-4.522586	44715.473920			
HLA A*0211	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.398711
	-0.124403	-4.523113	25044.393568			
HLA A*0202	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.587865	
	0.064686	-4.523179	38713.747046			
HLA B*3901	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.213092	-
0.310145	-4.523237	16333.972005				
HLA A*3301	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.616837	
	0.093374	-4.523462	41384.404245			

HLA A*0101	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.356192	-
0.168791	-4.524983	22708.679972				
HLA A*2603	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.634159	
0.108361	-4.525798	43068.471661				
HLA B*5401	1:204-212 9	GELLPEAAG	0.791497	-0.797464	-4.520045	
-0.005967	-4.526012	33116.541402				
HLA B*4403	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.649342	
0.123229	-4.526113	44600.716195				
HLA B*4002	1:127-135 9	TTYKAFDWD	0.819008	-0.722128	-4.623404	
0.096880	-4.526524	42014.917801				
HLA B*7301	1:213-221 9	PTQVLVPRS	1.263904	-1.221578	-4.569163	
0.042326	-4.526837	37082.013481				
HLA A*6801	1:71-79 9	AQTRDKFLS	0.986232	-0.892858	-4.620727	
0.093374	-4.527353	41756.823590				
HLA B*4002	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.650763	
0.123229	-4.527534	44746.932729				
HLA A*6901	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.217514	-
0.310145	-4.527659	16501.124373				
HLA A*3002	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.591897	
0.063696	-4.528201	39074.814443				
HLA A*0301	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.359594	-
0.168791	-4.528385	22887.267430				
HLA B*4501	1:125-133 9	PTTTYKAFD	1.155703	-1.032474	-4.651978	
0.123229	-4.528749	44872.261178				
HLA B*1502	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.604948	
0.076178	-4.528770	40266.910881				
HLA B*4403	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-4.621430	
0.092119	-4.529311	41824.422283				
HLA B*0802	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.484603	-
0.044895	-4.529498	30521.297545				
HLA A*3301	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.620337	
0.090830	-4.529508	41719.341058				

HLA A*0250	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.595177	
	0.064686	-4.530490	39371.032603			
HLA A*8001	1:196-204 9	GVIFFFNPG	0.529052	-0.653455	-4.406177	
	-0.124403	-4.530580	25478.695198			
HLA B*5101	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.486182	-
	0.044895	-4.531076	30632.457995			
HLA A*6901	1:159-167 9	FPIVQGELS	0.883442	-1.099184	-4.315941	
	-0.215742	-4.531682	20698.578124			
HLA B*4403	1:145-153 9	DTLWQADTD	1.026181	-0.950003	-4.607972	
	0.076178	-4.531794	40548.248622			
HLA A*2902	1:159-167 9	FPIVQGELS	0.883442	-1.099184	-4.317228	
	-0.215742	-4.532970	20760.032576			
HLA A*0250	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.596723	
	0.063696	-4.533027	39511.431688			
HLA B*4002	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.624014	
	0.090830	-4.533185	42074.056354			
HLA A*0301	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.337647	-
	0.196092	-4.533740	21759.424500			
HLA A*6901	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.365148	-
	0.168791	-4.533939	23181.851890			
HLA B*1509	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.489537	-
	0.044895	-4.534432	30870.020028			
HLA B*1509	1:206-214 9	LLPEAAGPT	0.415766	-0.375252	-4.575147	
	0.040514	-4.534633	37596.502515			
HLA B*4801	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.338778	-
	0.196092	-4.534870	21816.119665			
HLA A*0206	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.339001	-
	0.196092	-4.535093	21827.334711			
HLA B*1509	1:201-209 9	FNPGEELLPE	0.811387	-0.836977	-4.509773	
	-0.025590	-4.535363	32342.458203			
HLA B*4002	1:157-165 9	VVFPIVQGE	0.697577	-0.605458	-4.627703	
	0.092119	-4.535584	42432.935361			

HLA B*3801	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.576339
	0.040514	-4.535824	37699.764270			
HLA A*2602	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.577429
	0.040514	-4.536914	37794.516661			
HLA B*0803	1:201-209	9	FNPGEELPE	0.811387	-0.836977	-4.511657
	-0.025590	-4.537248	32483.088289			
HLA B*5301	1:86-949		PREAPYELN	0.811488	-0.746802	-4.602127
	0.064686	-4.537440	40006.133701			
HLA A*6801	1:167-175	9	SKQTGQQVS	1.053333	-0.925462	-4.666455
	0.127871	-4.538584	46393.323073			
HLA A*3201	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.612680
	0.073876	-4.538805	40990.240710			
HLA B*7301	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.579734
	0.040514	-4.539219	37995.629177			
HLA B*4501	1:23-319		AAPKTYCEE	0.685714	-0.594884	-4.630283
	0.090830	-4.539453	42685.739562			
HLA B*1501	1:57-659		PSYYPDQKS	0.896699	-1.065490	-4.370827
	0.168791	-4.539618	23486.961291			-
HLA A*3002	1:86-949		PREAPYELN	0.811488	-0.746802	-4.605585
	0.064686	-4.540899	40325.988688			
HLA B*4403	1:84-929		STPREAPYE	0.746095	-0.647795	-4.639552
	0.098300	-4.541252	43606.529967			
HLA B*1502	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.615147
	0.073876	-4.541272	41223.743566			
HLA B*4002	1:28-369		YCEELKGTD	0.955740	-0.847379	-4.650399
	0.108361	-4.542038	44709.426685			
HLA A*3002	1:38-469		GQACQIQMS	0.965607	-1.010502	-4.498622
	0.044895	-4.543517	31522.624578			-
HLA A*3301	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.586228
	0.042326	-4.543902	38568.044274			
HLA B*4002	1:84-929		STPREAPYE	0.746095	-0.647795	-4.643231
	0.098300	-4.544931	43977.528846			

HLA B*4002	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.234841	-
0.310145	-4.544986	17172.795159				
HLA B*1502	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.610841	
0.064686	-4.546154	40816.975608				
HLA B*4403	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.501289	-
0.044895	-4.546184	31716.776017				
HLA A*2402	1:188-196	9 QNFAVTNDG	0.673013	-0.639588	-4.579994	
0.033425	-4.546570	38018.452317				
HLA A*3301	1:217-225	9 LVPRSAIDS	0.966010	-0.900484	-4.612342	
0.065526	-4.546817	40958.320762				
HLA B*4501	1:84-92 9	STPREAPYE	0.746095	-0.647795	-4.645517	
0.098300	-4.547217	44209.629067				
HLA B*4002	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.502887	-
0.044895	-4.547781	31833.668177				
HLA A*6802	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.379539	-
0.168791	-4.548329	23962.863971				
HLA B*5301	1:213-221	9 PTQVLVPRS	1.263904	-1.221578	-4.593314	
0.042326	-4.550988	39202.491000				
HLA A*2603	1:194-202	9 NDGVIFFFN	0.826929	-0.753053	-4.625022	
0.073876	-4.551147	42171.817010				
HLA A*2402	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.355099	-
0.196092	-4.551192	22651.625845				
HLA B*4501	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.659574	
0.108361	-4.551213	45663.988264				
HLA B*1517	1:196-204	9 GVIFFFNPG	0.529052	-0.653455	-4.427311	
-0.124403	-4.551714	26749.200187				
HLA B*5301	1:206-214	9 LLPEAAGPT	0.415766	-0.375252	-4.592679	
0.040514	-4.552165	39145.270895				
HLA A*6801	1:171-179	9 GQQVSIAPN	0.716617	-0.624632	-4.644281	
0.091985	-4.552296	44084.004895				
HLA A*6801	1:28-36 9	YCEELKGTD	0.955740	-0.847379	-4.661002	
0.108361	-4.552641	45814.434118				

HLA B*1801	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.507947	-
0.044895	-4.552842	32206.792535				
HLA B*4501	1:157-165	9 VVFPIVQGE	0.697577	-0.605458	-4.645284	
0.092119	-4.553166	44185.957657				
HLA A*2301	1:204-212	9 GELLPEAAG	0.791497	-0.797464	-4.547825	
-0.005967	-4.553793	35304.111386				
HLA B*0801	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.338634	
-0.215742	-4.554376	21808.921462				
HLA A*2301	1:201-209	9 FNPGEELLPE	0.811387	-0.836977	-4.528799	
-0.025590	-4.554389	33790.853006				
HLA B*4601	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.358501	-
0.196092	-4.554594	22829.764613				
HLA A*2902	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.386261	-
0.168791	-4.555051	24336.638944				
HLA A*2603	1:23-31 9	AAPKTYCEE	0.685714	-0.594884	-4.648980	
0.090830	-4.558150	44563.573790				
HLA A*2402	1:201-209	9 FNPGEELLPE	0.811387	-0.836977	-4.532892	
-0.025590	-4.558482	34110.804160				
HLA B*5301	1:188-196	9 QNFAVTNDG	0.673013	-0.639588	-4.591998	
0.033425	-4.558573	39083.905288				
HLA A*0201	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.390008	-
0.168791	-4.558799	24547.542894				
HLA B*5701	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.390546	-
0.168791	-4.559337	24577.972822				
HLA A*3301	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.623046	
0.063696	-4.559351	41980.383002				
HLA A*3101	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.390906	-
0.168791	-4.559696	24598.324752				
HLA A*0201	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.364201	-
0.196092	-4.560294	23131.366211				
HLA B*4403	1:188-196	9 QNFAVTNDG	0.673013	-0.639588	-4.593734	
0.033425	-4.560309	39240.471909				

HLA A*0250	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.593842
	0.033425	-4.560418	39250.238308			
HLA A*2602	1:194-202	9	NDGVIFFFN	0.826929	-0.753053	-4.634298
	0.073876	-4.560422	43082.220599			
HLA A*8001	1:50-589	9	YNINISLPS	0.643875	-0.954020	-4.250622
0.310145	-4.560767	17808.300702				-
HLA A*2602	1:86-949	9	PREAPYELN	0.811488	-0.746802	-4.625605
	0.064686	-4.560919	42228.434906			
HLA A*2603	1:171-179	9	GQQVSIAPN	0.716617	-0.624632	-4.653865
	0.091985	-4.561880	45067.616625			
HLA A*2603	1:71-799	9	AQTRDKFLS	0.986232	-0.892858	-4.655324
	0.093374	-4.561949	45219.277751			
HLA B*4403	1:28-369	9	YCEELKGTD	0.955740	-0.847379	-4.670701
	0.108361	-4.562340	46849.072875			
HLA A*3301	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.603764
	0.040514	-4.563250	40157.269302			
HLA A*0203	1:57-659	9	PSYYPDQKS	0.896699	-1.065490	-4.394676
0.168791	-4.563467	24812.838810				-
HLA A*0101	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.347828
	-0.215742	-4.563569	22275.513452			
HLA B*5801	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.348901
	-0.215742	-4.564643	22330.653769			
HLA B*7301	1:38-469	9	GQACQIQMS	0.965607	-1.010502	-4.519817
0.044895	-4.564712	33099.167750				-
HLA A*3201	1:86-949	9	PREAPYELN	0.811488	-0.746802	-4.629665
	0.064686	-4.564978	42625.049441			
HLA A*0219	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.440717
	-0.124403	-4.565120	27587.793235			
HLA B*4403	1:23-319	9	AAPKYCEE	0.685714	-0.594884	-4.656383
	0.090830	-4.565554	45329.741161			
HLA A*2601	1:57-659	9	PSYYPDQKS	0.896699	-1.065490	-4.396838
0.168791	-4.565629	24936.642577				-

HLA B*4002	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.642190
	0.076178	-4.566012	43872.259335			
HLA B*3501	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.397719	-
	0.168791	-4.566510	24987.283104			
HLA B*4002	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.599967
	0.033425	-4.566543	39807.729292			
HLA B*3801	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.532246	-
	0.035101	-4.567347	34060.094581			
HLA A*8001	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.373329	-
	0.196092	-4.569421	23622.672746			
HLA A*6801	1:30-38 9	EELKGTDTG	0.811906	-0.748210	-4.633236	
	0.063696	-4.569540	42977.001639			
HLA B*1502	1:201-209	9	FNPCELLPE	0.811387	-0.836977	-4.544099
	-0.025590	-4.569689	35002.494936			
HLA B*4501	1:145-153	9	DTLWQADTD	1.026181	-0.950003	-4.646029
	0.076178	-4.569851	44261.798708			
HLA A*6801	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.612048
	0.040514	-4.571534	40930.632628			
HLA B*4601	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.402874	-
	0.168791	-4.571665	25285.631674			
HLA B*0801	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.376207	-
	0.196092	-4.572299	23779.742782			
HLA B*3901	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.448426
	-0.124403	-4.572828	28081.844016			
HLA A*3301	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.638208	
	0.064686	-4.573521	43471.800018			
HLA A*3301	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.377918	-
	0.196092	-4.574010	23873.581570			
HLA A*0101	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.378263	-
	0.196092	-4.574355	23892.574675			
HLA B*4402	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.450117
	-0.124403	-4.574520	28191.439478			

HLA B*7301	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.548937
	-0.025590	-4.574527	35394.565966			
HLA A*2602	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.549087
	-0.025590	-4.574677	35406.822852			
HLA B*4801	1:57-65 9	9	PSYYPDQKS	0.896699	-1.065490	-4.406433
0.168791	-4.575224		25493.723853			-
HLA B*1509	1:76-84 9	9	KFLSAATSS	0.874409	-0.909510	-4.540523
0.035101	-4.575624		34715.472869			-
HLA A*0203	1:54-62 9	9	ISLPSYYPD	0.496117	-0.692209	-4.380138
0.196092	-4.576230		23995.944074			-
HLA A*2301	1:38-46 9	9	GQACQIQMS	0.965607	-1.010502	-4.531360
0.044895	-4.576255		33990.698849			-
HLA A*6801	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.618714
	0.042326	-4.576388	41563.675562			
HLA A*2602	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.610333
	0.033425	-4.576909	40769.307357			
HLA B*1502	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.571560
	-0.005967	-4.577527	37287.200855			
HLA B*5401	1:76-84 9	9	KFLSAATSS	0.874409	-0.909510	-4.542457
0.035101	-4.577558		34870.382514			-
HLA B*1502	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.619924
	0.042326	-4.577598	41679.637289			
HLA A*0250	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.552073
	-0.025590	-4.577663	35651.117992			
HLA B*4002	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.644382
	0.065526	-4.578857	44094.261140			
HLA B*4501	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.614720
	0.033425	-4.581295	41183.174651			
HLA B*4001	1:57-65 9	9	PSYYPDQKS	0.896699	-1.065490	-4.412664
0.168791	-4.581455		25862.119342			-
HLA B*4501	1:86-94 9	9	PREAPYELN	0.811488	-0.746802	-4.646795
	0.064686	-4.582109	44339.928748			

HLA A*0202	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.576393
	-0.005967	-4.582360	37704.455447			
HLA A*0250	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.547950	-
0.035101	-4.583051	35314.235378				
HLA B*1801	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.459224
	-0.124403	-4.583627	28788.819431			
HLA A*0301	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.368026
	-0.215742	-4.583768	23335.990854			
HLA B*4002	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.648724	-
	0.064686	-4.584037	44537.303381			
HLA A*2403	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.388081	-
0.196092	-4.584174	24438.888495				
HLA A*3301	1:188-196	9	QNFAVTNDG	0.673013	-0.639588	-4.618195
	0.033425	-4.584770	41514.012329			
HLA A*2403	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.369354
	-0.215742	-4.585095	23407.428471			
HLA A*2603	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.628032
	0.042326	-4.585706	42465.085581			
HLA B*4002	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.550720	-
0.035101	-4.585821	35540.198588				
HLA B*4402	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.417380	-
0.168791	-4.586170	26144.451074				
HLA B*4002	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.627236
	0.040514	-4.586721	42387.278004			
HLA A*2601	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.392101	-
0.196092	-4.588194	24666.152869				
HLA B*3901	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.372683
	-0.215742	-4.588425	23587.554964			
HLA A*2601	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.373235
	-0.215742	-4.588977	23617.561458			
HLA B*1509	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.420187	-
0.168791	-4.588978	26314.017697				

HLA B*3801	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.583495
	-0.005967	-4.589462	38326.147438			
HLA B*0702	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.393732	-
0.196092	-4.589824	24758.935093				
HLA B*1503	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.374123
	-0.215742	-4.589865	23665.907324			
HLA B*4501	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.632820
	0.042326	-4.590494	42935.868691			
HLA A*0212	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.421782	-
0.168791	-4.590573	26410.855114				
HLA B*4501	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.656179
	0.065526	-4.590653	45308.411269			
HLA B*4002	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.633495
	0.042326	-4.591168	43002.584340			
HLA A*0250	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.546594	-
0.044895	-4.591489	35204.173648				
HLA A*2603	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.565992
	-0.025590	-4.591582	36812.177099			
HLA B*4001	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.397106	-
0.196092	-4.593198	24952.026430				
HLA B*5101	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.469089
	-0.124403	-4.593492	29450.274239			
HLA B*3801	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.568275
	-0.025590	-4.593866	37006.260540			
HLA A*2603	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.658890	-
	0.064686	-4.594204	45592.157020			
HLA B*0702	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.379522
	-0.215742	-4.595264	23961.956533			
HLA A*2402	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.550645	-
0.044895	-4.595539	35534.046527				
HLA B*5301	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.571644
	-0.025590	-4.597235	37294.463468			

HLA A*0216	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.401730	-
0.196092	-4.597822	25219.101423				
HLA B*4403	1:217-225	9	LVPRSAIDS	0.966010	-0.900484	-4.663382
0.065526	-4.597857	46066.196417				
HLA A*3301	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.473544
-0.124403	-4.597947	29753.904644				
HLA B*0702	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.429989	-
0.168791	-4.598780	26914.679578				
HLA B*4801	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.289243	-
0.310145	-4.599388	19464.502809				
HLA A*0219	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.403912	-
0.196092	-4.600005	25346.166289				
HLA B*0802	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.475997
-0.124403	-4.600400	29922.427899				
HLA B*5401	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.555567	-
0.044895	-4.600461	35939.070258				
HLA A*6901	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.234991	-
0.365615	-4.600606	17178.741975				
HLA A*0203	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.384997
-0.215742	-4.600738	24265.909640				
HLA A*0250	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.594827
-0.005967	-4.600794	39339.309445				
HLA B*3801	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.556500	-
0.044895	-4.601394	36016.340481				
HLA A*0201	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.386479
-0.215742	-4.602221	24348.886267				
HLA B*1501	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.386780
-0.215742	-4.602522	24365.752877				
HLA A*6801	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.667830	-
0.064686	-4.603143	46540.380553				
HLA A*2601	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.293919	-
0.310145	-4.604064	19675.183431				

HLA A*2301	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.408292	-
0.196092	-4.604384	25603.050915				
HLA A*3002	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.598485
-0.005967	-4.604452	39672.071708				
HLA B*4403	1:86-94 9	PREAPYELN	0.811488	-0.746802	-4.669430	
0.064686	-4.604743	46712.157806				
HLA B*0801	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.435957	-
0.168791	-4.604748	27287.070049				
HLA B*0803	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.480412
-0.124403	-4.604814	30228.146023				
HLA A*3101	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.390118
-0.215742	-4.605860	24553.785263				
HLA B*2705	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.410110	-
0.196092	-4.606203	25710.482161				
HLA A*2402	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.600327
-0.005967	-4.606294	39840.692309				
HLA B*4402	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.410745	-
0.196092	-4.606837	25748.064134				
HLA B*7301	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.438602	-
0.168791	-4.607393	27453.797493				
HLA B*1801	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.298056	-
0.310145	-4.608201	19863.520963				
HLA B*4501	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.573132	-
0.035101	-4.608233	37422.395785				
HLA A*8001	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.439895	-
0.168791	-4.608685	27535.606242				
HLA B*4001	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.393286
-0.215742	-4.609027	24733.498980				
HLA A*6802	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.244909	-
0.365615	-4.610523	17575.534149				
HLA B*1801	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.246250	-
0.365615	-4.611865	17629.909736				

HLA B*4403	1:213-221	9	PTQVLVPRS	1.263904	-1.221578	-4.654743
	0.042326	-4.612417	45158.894178			
HLA A*0212	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.302358	-
	0.310145	-4.612503	20061.256930			
HLA A*2602	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.606666
	-0.005967	-4.612633	40426.466857			
HLA B*4501	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.653273
	0.040514	-4.612758	45006.218162			
HLA A*3002	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.587402
	-0.025590	-4.612993	38672.509919			
HLA A*3201	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.607307
	-0.005967	-4.613275	40486.216807			
HLA A*0212	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.398231
	-0.215742	-4.613973	25016.769386			
HLA A*0219	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.446041	-
	0.168791	-4.614832	27928.068139			
HLA B*5301	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.608952
	-0.005967	-4.614919	40639.825637			
HLA B*4601	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.400604
	-0.215742	-4.616346	25153.834836			
HLA A*3201	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.592146
	-0.025590	-4.617736	39097.228253			
HLA B*2705	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.402329
	-0.215742	-4.618070	25253.915730			
HLA A*0201	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.308775	-
	0.310145	-4.618920	20359.850450			
HLA B*5101	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.422844	-
	0.196092	-4.618937	26475.515807			
HLA B*7301	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.423051	-
	0.196092	-4.619144	26488.123013			
HLA A*2403	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.450425	-
	0.168791	-4.619216	28211.425705			

HLA A*2301	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.495129
	-0.124403	-4.619532	31270.057911			
HLA B*4403	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.585452	-
0.035101	-4.620553	38499.251580				
HLA A*3002	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.425542	-
0.196092	-4.621634	26640.455046				
HLA B*5701	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.406337
	-0.215742	-4.622079	25488.069833			
HLA A*0206	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.406997
	-0.215742	-4.622739	25526.845723			
HLA B*5301	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.588140	-
0.035101	-4.623241	38738.258941				
HLA B*0802	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.455169	-
0.168791	-4.623959	28521.255859				
HLA A*8001	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.408240
	-0.215742	-4.623982	25600.003884			
HLA A*2603	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.499952
	-0.124403	-4.624355	31619.294695			
HLA B*4403	1:206-214	9	LLPEAAGPT	0.415766	-0.375252	-4.668777
	0.040514	-4.628262	46641.957896			
HLA A*2501	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.432414	-
0.196092	-4.628506	27065.364631				
HLA B*7301	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.594808	-
0.035101	-4.629909	39337.606912				
HLA B*4002	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.604720
	-0.025590	-4.630311	40245.785990			
HLA A*0202	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.434972	-
0.196092	-4.631065	27225.287308				
HLA A*3201	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.586390	-
0.044895	-4.631284	38582.443732				
HLA A*3301	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.596594	-
0.035101	-4.631695	39499.677051				

HLA A*6801	1:201-209	9	FNPGELLPE	0.811387	-0.836977	-4.607495
	-0.025590	-4.633085	40503.742675			
HLA A*3301	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.628030
	-0.005967	-4.633997	42464.855850			
HLA A*0211	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.438053
0.196092	-4.634145		27419.065334			-
HLA A*0216	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.466876
0.168791	-4.635667		29300.574007			-
HLA B*0802	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.441847
0.196092	-4.637939		27659.674478			-
HLA B*0802	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.424202
	-0.215742	-4.639944	26558.432088			
HLA A*2602	1:76-84 9		KFLSAATSS	0.874409	-0.909510	-4.605139
0.035101	-4.640240		40284.559749			-
HLA B*4801	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.425109
	-0.215742	-4.640851	26613.949809			
HLA B*5401	1:50-58 9		YNINISLPS	0.643875	-0.954020	-4.331825
0.310145	-4.641970		21469.670585			-
HLA A*2602	1:38-46 9		GQACQIQMS	0.965607	-1.010502	-4.597204
0.044895	-4.642099		39555.275250			-
HLA B*4501	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.519004
	-0.124403	-4.643407	33037.269960			
HLA A*2402	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.519046
	-0.124403	-4.643449	33040.487220			
HLA B*5301	1:38-46 9		GQACQIQMS	0.965607	-1.010502	-4.600249
0.044895	-4.645144		39833.580331			-
HLA B*1509	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.430212
	-0.215742	-4.645954	26928.515649			
HLA A*2501	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.477999
0.168791	-4.646789		30060.665457			-
HLA B*1517	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.431237
	-0.215742	-4.646979	26992.107221			

HLA B*0801	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.283285	-
0.365615	-4.648900		19199.283470				
HLA B*5101	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.480115	-
0.168791	-4.648906		30207.548148				
HLA B*2705	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.480865	-
0.168791	-4.649656		30259.723973				
HLA A*6801	1:50-58 9		YNINISLPS	0.643875	-0.954020	-4.339894	-
0.310145	-4.650039		21872.252581				
HLA B*5801	1:50-58 9		YNINISLPS	0.643875	-0.954020	-4.340540	-
0.310145	-4.650685		21904.816575				
HLA A*1101	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.482303	-
0.168791	-4.651094		30360.075478				
HLA A*0101	1:50-58 9		YNINISLPS	0.643875	-0.954020	-4.342029	-
0.310145	-4.652174		21980.076233				
HLA B*4402	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.436915	
	-0.215742	-4.652657	27347.365537				
HLA A*2603	1:204-212	9	GELLPEAAG	0.791497	-0.797464	-4.647676	
	-0.005967	-4.653643	44429.972841				
HLA A*3301	1:201-209	9	FNPGEELLPE	0.811387	-0.836977	-4.628347	
	-0.025590	-4.653937	42495.880750				
HLA A*2501	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.439190	
	-0.215742	-4.654932	27490.953114				
HLA A*0219	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.441069	
	-0.215742	-4.656811	27610.189357				
HLA A*0216	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.442409	
	-0.215742	-4.658150	27695.460558				
HLA A*2603	1:76-84 9		KFLSAATSS	0.874409	-0.909510	-4.623380	-
0.035101	-4.658481		42012.644902				
HLA B*3901	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.463533	-
0.196092	-4.659625		29075.876213				
HLA B*1801	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.444422	
	-0.215742	-4.660164	27824.162447				

HLA A*0211	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.351444	-
0.310145	-4.661589	22461.749562				
HLA B*1502	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.351747	-
0.310145	-4.661892	22477.430542				
HLA A*6801	1:76-84 9	KFLSAATSS	0.874409	-0.909510	-4.627057	-
0.035101	-4.662158	42369.853990				
HLA B*1502	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.447676
	-0.215742	-4.663418	28033.423436			
HLA B*4001	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.356300	-
0.310145	-4.666445	22714.331842				
HLA A*3201	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.356685	-
0.310145	-4.666830	22734.493435				
HLA A*0219	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.358743	-
0.310145	-4.668888	22842.489327				
HLA A*0301	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.359514	-
0.310145	-4.669659	22883.058019				
HLA A*0250	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.545457
	-0.124403	-4.669860	35112.116094			
HLA A*3101	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.361185	-
0.310145	-4.671330	22971.245622				
HLA A*3001	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.305922	-
0.365615	-4.671537	20226.573121				
HLA A*2501	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.362040	-
0.310145	-4.672185	23016.525159				
HLA A*3301	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.628305	-
0.044895	-4.673199	42491.742787				
HLA B*7301	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.549392
	-0.124403	-4.673795	35431.732718			
HLA B*1502	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.549416
	-0.124403	-4.673819	35433.649588			
HLA A*0206	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.505544	-
0.168791	-4.674335	32029.042266				

HLA A*3201	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.508883	-
0.168791	-4.677673	32276.212845				
HLA B*1509	1:196-204 9	GVIFFFNPG	0.529052	-0.653455	-4.554183	
	-0.124403 -4.678586	35824.735373				
HLA B*4501	1:201-209 9	FNPGEELPE	0.811387	-0.836977	-4.653359	
	-0.025590 -4.678950	45015.227774				
HLA B*1502	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.510311	-
0.168791	-4.679102	32382.550959				
HLA B*5101	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.314298	-
0.365615	-4.679913	20620.453998				
HLA A*6801	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.635055	-
0.044895	-4.679949	43157.334556				
HLA B*0702	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.369864	-
0.310145	-4.680009	23434.923662				
HLA A*0216	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.373002	-
0.310145	-4.683147	23604.915774				
HLA A*3002	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.514747	-
0.168791	-4.683538	32714.997038				
HLA B*4403	1:201-209 9	FNPGEELPE	0.811387	-0.836977	-4.658209	
	-0.025590 -4.683799	45520.685030				
HLA B*3901	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.516025	-
0.168791	-4.684816	32811.418424				
HLA A*0211	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.516540	-
0.168791	-4.685330	32850.315305				
HLA B*1801	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.516711	-
0.168791	-4.685502	32863.291176				
HLA A*6801	1:204-212 9	GELLPEAAG	0.791497	-0.797464	-4.680508	
	-0.005967 -4.686475	47919.000531				
HLA A*2603	1:38-46 9	GQACQIQMS	0.965607	-1.010502	-4.643837	-
0.044895	-4.688732	44038.953400				
HLA B*0803	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.492995	-
0.196092	-4.689088	31116.830428				

HLA B*0803	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.528884	-
0.168791	-4.697675	33797.434619				
HLA A*2301	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.530493	-
0.168791	-4.699284	33922.912628				
HLA A*1101	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.486431
	-0.215742	-4.702173	30650.029162			
HLA B*4402	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.392400	-
0.310145	-4.702545	24683.105718				
HLA A*2403	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.394087	-
0.310145	-4.704232	24779.168764				
HLA A*2602	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.536484	-
0.168791	-4.705275	34394.129376				
HLA A*1101	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.396568	-
0.310145	-4.706713	24921.133388				
HLA B*1517	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.398565	-
0.310145	-4.708710	25035.994759				
HLA B*5401	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.540965	-
0.168791	-4.709756	34750.798520				
HLA B*5301	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.586862
	-0.124403	-4.711265	38624.420626			
HLA B*0702	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.348293	-
0.365615	-4.713908	22299.386831				
HLA B*3801	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.590325
	-0.124403	-4.714728	38933.649862			
HLA B*4002	1:196-204	9	GVIFFFNPG	0.529052	-0.653455	-4.590532
	-0.124403	-4.714935	38952.189427			
HLA A*0202	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.501407
	-0.215742	-4.717148	31725.356389			
HLA A*6801	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.522117	-
0.196092	-4.718210	33274.935305				
HLA B*5701	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.409882	-
0.310145	-4.720027	25696.993888				

HLA B*3801	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.554629	-
0.168791	-4.723420	35861.577796				
HLA A*0211	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.509710	
	-0.215742	-4.725451	32337.734382			
HLA B*0803	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.510990	
	-0.215742	-4.726732	32433.219315			
HLA B*5801	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.361450	-
0.365615	-4.727065	22985.292639				
HLA A*2601	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.361692	-
0.365615	-4.727307	22998.104040				
HLA A*6801	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.512874	
	-0.215742	-4.728616	32574.244045			
HLA A*2301	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.514117	
	-0.215742	-4.729859	32667.599558			
HLA A*0301	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.366903	-
0.365615	-4.732518	23275.723642				
HLA A*2402	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.565237	-
0.168791	-4.734028	36748.305489				
HLA A*0202	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.565750	-
0.168791	-4.734540	36791.670384				
HLA A*2501	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.370961	-
0.365615	-4.736576	23494.204934				
HLA B*1509	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.542436	-
0.196092	-4.738528	34868.684751				
HLA A*0101	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.375089	-
0.365615	-4.740704	23718.586170				
HLA A*6801	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.579367	-
0.168791	-4.748158	37963.576570				
HLA B*1509	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.441239	-
0.310145	-4.751384	27620.945952				
HLA B*5101	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.441422	-
0.310145	-4.751567	27632.603659				

HLA A*6801	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.389846	-
0.365615	-4.755461	24538.381440				
HLA A*0201	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.391686	-
0.365615	-4.757300	24642.545089				
HLA B*3901	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.393943	-
0.365615	-4.759558	24770.992907				
HLA B*1509	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.395651	-
0.365615	-4.761266	24868.608795				
HLA B*0802	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.451280	-
0.310145	-4.761425	28267.034369				
HLA B*5301	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.593337	-
0.168791	-4.762128	39204.611869				
HLA A*0250	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.594888	-
0.168791	-4.763679	39344.843189				
HLA B*3801	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.568132	-
0.196092	-4.764224	36994.050369				
HLA B*4403	1:196-204	9	GVIFFNPG	0.529052	-0.653455	-4.639963
	-0.124403	-4.764366	43647.833152			
HLA A*3101	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.399751	-
0.365615	-4.765366	25104.486463				
HLA A*3301	1:57-65 9	PSYYPDQKS	0.896699	-1.065490	-4.598309	-
0.168791	-4.767099	39655.978360				
HLA B*1502	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.571052	-
0.196092	-4.767145	37243.654863				
HLA B*4001	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.401781	-
0.365615	-4.767396	25222.103118				
HLA B*7301	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.457450	-
0.310145	-4.767595	28671.472282				
HLA B*5301	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.574410	-
0.196092	-4.770502	37532.691355				
HLA B*4002	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.575265	-
0.196092	-4.771357	37606.673536				

HLA B*4601	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.406156	-
0.365615	-4.771771	25477.454696				
HLA A*0250	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.577309	-
0.196092	-4.773401	37784.090428				
HLA A*0203	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.409967	-
0.365615	-4.775582	25701.999019				
HLA B*3801	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.562204	
	-0.215742	-4.777946	36492.543373			
HLA A*2301	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.470337	-
0.310145	-4.780482	29534.996233				
HLA B*1503	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.415070	-
0.365615	-4.780685	26005.785979				
HLA A*2402	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.567185	
	-0.215742	-4.782927	36913.484340			
HLA B*1501	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.417502	-
0.365615	-4.783117	26151.806914				
HLA A*2402	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.474831	-
0.310145	-4.784976	29842.244524				
HLA A*0212	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.419846	-
0.365615	-4.785461	26293.384183				
HLA B*5701	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.421221	-
0.365615	-4.786836	26376.728909				
HLA B*0803	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.479157	-
0.310145	-4.789302	30140.946527				
HLA A*2602	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.579513	
	-0.215742	-4.795255	37976.312188			
HLA A*3002	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.487444	-
0.310145	-4.797589	30721.578059				
HLA B*4501	1:54-62 9	ISLPSYYPD	0.496117	-0.692209	-4.601506	-
0.196092	-4.797599	39949.037294				
HLA B*7301	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.582154	
	-0.215742	-4.797895	38207.938848			

HLA A*3002	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.582640	
	-0.215742	-4.798382	38250.749863				
HLA A*0250	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.583077	
	-0.215742	-4.798819	38289.258645				
HLA A*2603	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.630128	-
0.168791	-4.798919		42670.501225				
HLA A*2602	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.603621	-
0.196092	-4.799713		40144.019460				
HLA B*5301	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.435038	-
0.365615	-4.800653		27229.411622				
HLA B*4403	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.604612	-
0.196092	-4.800705		40235.771875				
HLA B*4801	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.438607	-
0.365615	-4.804222		27454.094539				
HLA A*2403	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.441828	-
0.365615	-4.807443		27658.477418				
HLA A*3301	1:159-167	9	FPIVQGELS	0.883442	-1.099184	-4.594733	
	-0.215742	-4.810475	39330.797514				
HLA B*4402	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.446008	-
0.365615	-4.811623		27925.952990				
HLA B*4002	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.643388	-
0.168791	-4.812179		43993.471944				
HLA B*4501	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.645092	-
0.168791	-4.813882		44166.360631				
HLA A*2902	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.449643	-
0.365615	-4.815257		28160.648768				
HLA B*0802	1:47-55 9		DPAYNINIS	0.849651	-1.215266	-4.451844	-
0.365615	-4.817459		28303.759371				
HLA A*2603	1:54-62 9		ISLPSYYPD	0.496117	-0.692209	-4.625060	-
0.196092	-4.821152		42175.467486				
HLA B*4403	1:57-65 9		PSYYPDQKS	0.896699	-1.065490	-4.652756	-
0.168791	-4.821546		44952.684723				

HLA A*8001	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.456087	-
0.365615	-4.821702	28581.649773				
HLA A*0219	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.458350	-
0.365615	-4.823965	28730.940803				
HLA A*2602	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.472395	-
0.365615	-4.838010	29675.296621				
HLA B*4002	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.625074	
	-0.215742	-4.840816	42176.836495			
HLA A*0250	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.532161	-
0.310145	-4.842306	34053.461819				
HLA A*3201	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.627026	
	-0.215742	-4.842768	42366.874284			
HLA B*3801	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.534158	-
0.310145	-4.844303	34210.414042				
HLA A*2603	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.634324	
	-0.215742	-4.850066	43084.784446			
HLA A*2602	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.542915	-
0.310145	-4.853060	34907.187680				
HLA B*1517	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.488397	-
0.365615	-4.854012	30789.129552				
HLA B*2705	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.490921	-
0.365615	-4.856536	30968.541905				
HLA A*1101	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.494057	-
0.365615	-4.859672	31193.012581				
HLA A*0216	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.494506	-
0.365615	-4.860121	31225.260630				
HLA B*5301	1:50-58 9	YNINISLPS	0.643875	-0.954020	-4.552052	-
0.310145	-4.862197	35649.382217				
HLA B*4403	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.651069	
	-0.215742	-4.866810	44778.413671			
HLA B*4501	1:159-167	9 FPIVQGELS	0.883442	-1.099184	-4.651825	
	-0.215742	-4.867567	44856.484944			

HLA B*4403 0.310145	1:50-58 9 -4.869772	YNINISLPS 36276.614325	0.643875	-0.954020	-4.559627	-
HLA A*0206 0.365615	1:47-55 9 -4.880284	DPAYNINIS 32709.157071	0.849651	-1.215266	-4.514669	-
HLA A*3301 0.310145	1:50-58 9 -4.888866	YNINISLPS 37907.139408	0.643875	-0.954020	-4.578721	-
HLA A*3002 0.365615	1:47-55 9 -4.889341	DPAYNINIS 33398.473458	0.849651	-1.215266	-4.523727	-
HLA B*4501 0.310145	1:50-58 9 -4.895341	YNINISLPS 38476.556114	0.643875	-0.954020	-4.585196	-
HLA B*0803 0.365615	1:47-55 9 -4.900003	DPAYNINIS 34228.556157	0.849651	-1.215266	-4.534389	-
HLA A*2603 0.310145	1:50-58 9 -4.901525	YNINISLPS 39028.336216	0.643875	-0.954020	-4.591380	-
HLA A*2301 0.365615	1:47-55 9 -4.904707	DPAYNINIS 34601.286695	0.849651	-1.215266	-4.539092	-
HLA B*3801 0.365615	1:47-55 9 -4.913861	DPAYNINIS 35338.315392	0.849651	-1.215266	-4.548246	-
HLA A*0211 0.365615	1:47-55 9 -4.919391	DPAYNINIS 35791.222301	0.849651	-1.215266	-4.553777	-
HLA A*0202 0.365615	1:47-55 9 -4.920529	DPAYNINIS 35885.060347	0.849651	-1.215266	-4.554914	-
HLA B*1502 0.365615	1:47-55 9 -4.932269	DPAYNINIS 36868.380202	0.849651	-1.215266	-4.566654	-
HLA A*2402 0.365615	1:47-55 9 -4.939571	DPAYNINIS 37493.523600	0.849651	-1.215266	-4.573956	-
HLA A*3301 0.365615	1:47-55 9 -4.942170	DPAYNINIS 37718.532482	0.849651	-1.215266	-4.576555	-
HLA B*7301 0.365615	1:47-55 9 -4.958846	DPAYNINIS 39195.068863	0.849651	-1.215266	-4.593231	-
HLA A*0250 0.365615	1:47-55 9 -4.964854	DPAYNINIS 39741.025067	0.849651	-1.215266	-4.599239	-

HLA A*3201	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.613623	-
0.365615	-4.979237	41079.260049				
HLA A*2603	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.623984	-
0.365615	-4.989599	42071.097451				
HLA B*4002	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.645491	-
0.365615	-5.011106	44206.998284				
HLA B*4501	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.647681	-
0.365615	-5.013296	44430.453566				
HLA B*4403	1:47-55 9	DPAYNINIS	0.849651	-1.215266	-4.658427	-
0.365615	-5.024042	45543.593145				