



nHLAPred
A neural network based MHC Class-I Binding Peptide Prediction Server

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Antigen Name	Untitled
Scanned on	Wed Apr 21 00:28:04 2010
Length of input sequence	510 amino acids
Number of nonamers from input sequence	502
Threshold setting	.5
Number of alleles in query	67
Number of top scorers to be displayed	4
Number of top scorers to be displayed	4
Proteosome Filter	on at 5 threshold
ImmunoProteosome Filter	on at 5 threshold

ALLELE: HLA-A1				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MIELTVAQI	1	1.000
ANNs+QM	2	ADDPVAAM	248	1.000
ANNs+QM	3	SVEQVAAAL	327	1.000
ANNs+QM	4	AIGPGGLFL	40	0.880

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LMAAVLAPL	146	1.000
ANNs+QM	2	AVLGEMAEL	391	1.000

ANNs+QM	3	ALAKLATAV	112	0.960
ANNs+QM	4	RIGRLAVRL	409	0.950

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVAAGAAVV	64	1.000
ANNs+QM	2	ALAKLATAV	112	1.000
ANNs+QM	3	ALCAAVAL	314	1.000
ANNs+QM	4	SMRAGLQAL	368	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AIGPGGLFL	40	1.000
ANNs+QM	2	ALAKLATAV	112	1.000
ANNs+QM	3	ALCAAVAL	314	1.000
ANNs+QM	4	SVEQVAAAL	327	1.000

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALAKLATAV	112	0.990
ANNs+QM	2	AIGPGGLFL	40	0.920
ANNs+QM	3	LMAAVLAPL	146	0.910
ANNs+QM	4	AALAKLATA	111	0.900

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AIGPGGLFL	40	1.000
ANNs+QM	2	AVAAGAAVV	64	1.000
ANNs+QM	3	PVGVPAIVV	77	1.000
ANNs+QM	4	VLNADDPVAV	245	0.990

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AIGPGGLFL	40	12.760
QM	2	ALAKLATAV	112	11.800
QM	3	ADGDAALAL	463	11.720
QM	4	GLGAVADAL	491	11.610

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPGDVVLVK	477	0.840
ANNs+QM	2	LFLALPGAR	46	0.520
ANNs+QM	3	GDAALALLR	465	0.520
ANNs+QM	4	ASNAAGLGA	486	0.450

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GDAALALLR	465	1.000

ANNs+QM	2	AVAAMAKLT	252	0.980
ANNs+QM	3	LFLALPGAR	46	0.970
ANNs+QM	4	ALCAAVAL	314	0.790

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VKASNAAGL	484	10.820
QM	2	APPSIGVVL	203	10.810
QM	3	PPVAAPNVL	86	10.410
QM	4	ADGDAALAL	463	8.830

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRAIGPGL	38	0.650
ANNs+QM	2	RHHGNIAAL	191	0.440
ANNs+QM	3	VKASNAAGL	484	0.320
ANNs+QM	4	SGKTSTKDL	138	0.270

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALCAAVAL	314	1.000
ANNs+QM	2	GARADGHDH	52	0.970
ANNs+QM	3	RHHGNIAAL	191	0.960
ANNs+QM	4	ATRRSWAVL	385	0.930

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LFLALPGAR	46	0.182
QM	2	RPGDVVLVK	477	-1.427
QM	3	AVLAALAKL	108	-2.526

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GARADGHDH	52	0.930
ANNs+QM	2	GDAALALLR	465	0.830
ANNs+QM	3	VLGVLEHD	93	0.820
ANNs+QM	4	RLAVRLDVS	412	0.630

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AKLATAVAA	114	0.990
ANNs+QM	2	AKLTAARVV	257	0.990
ANNs+QM	3	ALCAAVAL	314	0.970
ANNs+QM	4	KDLMAAVLA	144	0.960

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TGTVEFDSR	31	1.099
QM	2	LFLALPGAR	46	1.099

QM	3	DVWAGPVSL	274	0.405
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ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DVWAGPVSL	274	2.485
QM	2	NVADGDAAL	461	2.485
QM	3	AVAAGAAVV	64	2.079
QM	4	AVLAALAKL	108	2.079

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TKDLMAAVL	143	6.215
QM	2	VKASNAAGL	484	6.215
QM	3	AKLTAARVV	257	5.704
QM	4	AKLATAVAA	114	4.605

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LMAAVLAPL	146	1.000
ANNs+QM	2	VLNADDPVAV	245	1.000
ANNs+QM	3	ALCAAVAL	314	1.000
ANNs+QM	4	GLGAVADAL	491	1.000

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRAIGPGGL	38	1.000
ANNs+QM	2	SGAAVLAAL	105	1.000
ANNs+QM	3	AVLAALAKL	108	1.000
ANNs+QM	4	AEHDRIGRL	405	1.000

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SRDNTGDVW	268	4.605
QM	2	SRAIGPGGL	38	4.094
QM	3	ARADGHDHA	53	2.996
QM	4	GEFGSREVI	219	1.504

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRAIGPGGL	38	1.000
ANNs+QM	2	LRAELRPGD	472	0.450
ANNs+QM	3	DRTAVNVAD	456	0.150
ANNs+QM	4	GARADGHDH	52	0.120

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRAIGPGGL	38	1.000
ANNs+QM	2	ARADGHDHA	53	0.740
ANNs+QM	3	LRAELRPGD	472	0.640

ANNs+QM	4	RIGRLAVRL	409	0.540
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ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GPGGLFLAL	42	1.000
ANNs+QM	2	APPSIGVVV	203	1.000
ANNs+QM	3	VPHSGAVVL	238	1.000
ANNs+QM	4	APNVLAGVL	90	0.960

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GDHQVTNAL	307	4.094
QM	2	NDGSGAAVL	102	3.689
QM	3	HDAQAEVRL	295	3.689
QM	4	ADGDAALAL	463	3.689

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RHHGNIAAL	191	4.094
QM	2	GHDHAASAV	57	3.153
QM	3	EHDNDGSGA	99	2.197
QM	4	GPGGLFLAL	42	1.649

ALLELE: HLA-B*3901				
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Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RHHGNIAAL	191	4.905
QM	2	GHDHAASAV	57	4.500
QM	3	SRAIGPGGL	38	2.708
QM	4	DGDAALALL	464	2.603

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TKDLMAAVL	143	3.178
QM	2	VKASNAAGL	484	2.996
QM	3	GPGGLFLAL	42	0.875
QM	4	APNVLAGVL	90	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEHDRIGRL	405	3.689
QM	2	GEFGSREVI	219	3.466
QM	3	KDLMAAVLA	144	1.609
QM	4	HDAQAEVRL	295	1.609

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ADDPVAAM	248	2.197
QM	2	AEHDRIGRL	405	2.079
QM	3	GEFGSREVI	219	1.792

QM	4	ADRTAVNVA	455	1.504
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ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IAEIVGGAV	9	1.000
ANNs+QM	2	APPSIGVVL	203	0.980
ANNs+QM	3	LAPLGEVVA	151	0.930
ANNs+QM	4	VPHSGAVVL	238	0.930

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IAEIVGGAV	9	16.470
QM	2	GADRTAVNV	454	15.590
QM	3	VPHSGAVVL	238	11.600
QM	4	LPQAVPHSG	234	10.630

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IAEIVGGAV	9	16.470
QM	2	GADRTAVNV	454	15.590
QM	3	VPHSGAVVL	238	11.600
QM	4	LPQAVPHSG	234	10.630

ALLELE: HLA-B*5201				
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Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEFGSREVI	219	4.007
QM	2	APPSIGVVV	203	3.689
QM	3	APNVLAGVL	90	3.178
QM	4	VPHSGAVVL	238	3.114

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GPGGLFLAL	42	1.000
ANNs+QM	2	PPVAAPNVL	86	1.000
ANNs+QM	3	APPSIGVVV	203	1.000
ANNs+QM	4	VPHSGAVVL	238	1.000

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPHSGAVVL	238	1.000
ANNs+QM	2	RPGDVVLVK	477	1.000
ANNs+QM	3	PPVAAPNVL	86	0.990
ANNs+QM	4	APNVLAGVL	90	0.990

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPHSGAVVL	238	1.000
ANNs+QM	2	APNVLAGVL	90	0.970
ANNs+QM	3	APPSIGVVV	203	0.970

ANNs+QM	4	PPVAAPNVL	86	0.950
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ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RSWAVLGEM	388	2.380
QM	2	KTSTKDLMA	140	1.887
QM	3	HSGAVVLNA	240	1.472
QM	4	GSGAAVLAA	104	0.971

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEHDRIGRL	405	5.170
QM	2	HDAQAEVRL	295	4.477
QM	3	ADGDAALAL	463	3.689
QM	4	GDHQVTNAL	307	3.091

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEFGSREVI	219	3.273
QM	2	AEHDRIGRL	405	2.773
QM	3	KDLMAAVLA	144	1.609
QM	4	HDHAASAVA	58	0.916

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELRPGDVVL	475	2.252
QM	2	GLGAVADAL	491	2.079
QM	3	EQVAAALTA	329	1.664
QM	4	ALAKLATAV	112	1.569

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GPGGLFLAL	42	1.000
ANNs+QM	2	PPVAAPNVL	86	1.000
ANNs+QM	3	APNVLAGVL	90	1.000
ANNs+QM	4	AVLAALAKL	108	1.000

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GPGGLFLAL	42	1.000
ANNs+QM	2	APNVLAGVL	90	1.000
ANNs+QM	3	LMAAVLAPL	146	1.000
ANNs+QM	4	APPSIGVVL	203	1.000

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KTSTKDLMA	140	0.750
ANNs+QM	2	VAAMAKLTA	253	0.750
ANNs+QM	3	LAALAKLAT	110	0.720

ANNs+QM	4	TADHGADRT	450	0.700
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ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVLGEMAEL	391	3.689
QM	2	AVLAALAKL	108	2.996
QM	3	AIGPGGLFL	40	2.303
QM	4	GPGGLFLAL	42	2.303

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMRAGLQAL	368	8.430
QM	2	HDAQAEVRL	295	8.370
QM	3	PPVAAPNVL	86	7.370
QM	4	APPSIGVVL	203	6.700

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GPGGLFLAL	42	1.887
QM	2	APNVLAGVL	90	1.887
QM	3	APPSIGVVL	203	1.887
QM	4	TKDLMAAVL	143	1.792

ALLELE: HLA-Cw*0702				
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Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GPGGLFLAL	42	2.156
QM	2	APPSIGVVL	203	1.974
QM	3	SGAAVLAAL	105	1.751
QM	4	LMAAVLAPL	146	1.569

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RHHGNIAAL	191	1.000
ANNs+QM	2	VKASNAAGL	484	0.970
ANNs+QM	3	RIGRLAVRL	409	0.960
ANNs+QM	4	AIGPGGLFL	40	0.930

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SGAAVLAAL	105	19.130
QM	2	RIGRLAVRL	409	16.770
QM	3	VGVPAIVVP	78	16.360
QM	4	DGHDHAASA	56	16.220

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VAAGAAVVL	65	0.980
ANNs+QM	2	GAAVLAALA	106	0.980
ANNs+QM	3	ASAVAAGAA	62	0.960

ANNs+QM	4	TKDLMAAVL	143	0.950
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRAIGPGGL	38	1.000
ANNs+QM	2	APNVLAGVL	90	1.000
ANNs+QM	3	VKASNAAGL	484	0.990
ANNs+QM	4	VPHSGAVVL	238	0.910

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEFGSREVI	219	6.215
QM	2	AEHDRIGRL	405	2.996
QM	3	NDGSGAAVL	102	2.079
QM	4	DDPAVAAMA	249	2.079

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPVAAPNVL	86	1.000
ANNs+QM	2	APNVLAGVL	90	1.000
ANNs+QM	3	APPSIGVVV	203	1.000
ANNs+QM	4	VPHSGAVVL	238	1.000

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RIGRLAVRL	409	18.170
QM	2	VAAGAAVVL	65	15.980
QM	3	ALCAAVAL	314	15.380
QM	4	GLGAVADAL	491	12.180

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LMAAVLAPL	146	9.450
QM	2	LPQAVPHSG	234	7.580
QM	3	SGAAVLAAL	105	6.920
QM	4	NVADGDAAL	461	5.810

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EHDNDGSGA	99	9.000
QM	2	RHHGNIAAL	191	7.870
QM	3	SRAIGPGGL	38	7.000
QM	4	SRDNTGDVW	268	6.670

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PPVAAPNVL	86	10.910
QM	2	APNVLAGVL	90	10.760
QM	3	VPHSGAVVL	238	10.730

QM	4	GPGGLFLAL	42	10.430
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ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VCGDHQVTN	305	4.600
QM	2	TADHGADRT	450	4.130
QM	3	SVEQVAAAL	327	3.490
QM	4	DGHDHAASA	56	2.540

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLGAVADAL	491	21.380
QM	2	VAAGAAVVL	65	18.860
QM	3	ALCAAVAL	314	18.270
QM	4	RLAVRLDVS	412	18.100

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SRAIGPGL	38	9.650
QM	2	SRDNTGDVW	268	9.060
QM	3	ARADGHDHA	53	8.400
QM	4	HDAQAEVRL	295	6.120

ALLELE: HLA-B*2704				
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Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RHHGNIAAL	191	13.680
QM	2	AVLAALAKL	108	13.470
QM	3	ALALLRAEL	468	13.220
QM	4	SGAAVLAAL	105	12.680

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEFGSREVI	219	17.110
QM	2	LEHDNDGSG	98	14.030
QM	3	GPGGLFLAL	42	9.130
QM	4	LEGAWGSGE	440	8.890

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LMAAVLAPL	146	3.380
QM	2	LATAVA AQL	116	3.040
QM	3	GDAALALLR	465	2.540
QM	4	ATRRSWAVL	385	2.110

ALLELE: HLA-B*44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEFGSREVI	219	10.860
QM	2	LEGAWGSGE	440	10.700
QM	3	GEDAIAEHD	400	8.680

QM	4	ADGDAALAL	463	6.480
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ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HAASAVAAG	60	0.940
ANNs+QM	2	AVAAMAKLT	252	0.940
ANNs+QM	3	SAVAAGAAV	63	0.870
ANNs+QM	4	GAWGSGEAT	442	0.800

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SAVAAGAAV	63	0.990
ANNs+QM	2	SRAIGPGGL	38	0.970
ANNs+QM	3	AVAAGAAVV	64	0.970
ANNs+QM	4	VAAGAAVVL	65	0.970