



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

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Antigen Name	Untitled
Scanned on	Fri Feb 26 16:46:23 2010
Length of input sequence	345 amino acids
Number of nonamers from input sequence	337
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	TADPSGLDI	59	0.400
ANNs+QM	2	VAPIAFNVV	200	0.290
ANNs+QM	3	LSPERAREL	268	0.260
ANNs+QM	4	VPTPLAAAG	288	0.250

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QLVDVPTPL	284	1.000
ANNs+QM	2	ALFVSGDNL	318	0.950

ANNs+QM	3	VLHDEARLV	141	0.740
ANNs+QM	4	AAMPVLKVL	134	0.720

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VLHDEARLV	141	1.000
ANNs+QM	2	QLVDVPTPL	284	1.000
ANNs+QM	3	NVVPLAGSL	206	0.990
ANNs+QM	4	SLSINAEFA	257	0.990

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALFVSGDNL	318	0.990
ANNs+QM	2	AAMPVLKVL	134	0.980
ANNs+QM	3	QLVDVPTPL	284	0.960
ANNs+QM	4	VLHDEARLV	141	0.900

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FESRKILGI	230	0.960
ANNs+QM	2	QLVDVPTPL	284	0.900
ANNs+QM	3	PIAFNVVPL	202	0.540
ANNs+QM	4	SGDNLRKGA	322	0.390

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VAPIAFNVV	200	0.980
ANNs+QM	2	VSGSGLAGV	159	0.960
ANNs+QM	3	FESRKILGI	230	0.860
ANNs+QM	4	VLHDEARLV	141	0.820

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PIAFNVVPL	202	8.650
QM	2	QLVDVPTPL	284	8.290
QM	3	WRKDPDVPL	98	8.160
QM	4	AVIGGAEQL	176	8.090

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LSPERAREL	268	0.650
ANNs+QM	2	TADPSGLDI	59	0.530
ANNs+QM	3	RFAAAGVTV	83	0.390
ANNs+QM	4	ALFVSGDNL	318	0.360

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RFAAAGVTV	83	0.940

ANNs+QM	2	GVQLVDVPT	282	0.890
ANNs+QM	3	PLAAAGVDE	291	0.850
ANNs+QM	4	TADPSGLDI	59	0.770

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NVVPLAGSL	206	9.560
QM	2	YQAVSGSGL	156	8.950
QM	3	VPVFTGHSL	250	8.440
QM	4	WRKDPDVPL	98	7.420

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TADPSGLDI	59	0.630
ANNs+QM	2	SARSQGRKL	37	0.610
ANNs+QM	3	AETADPSGL	57	0.430
ANNs+QM	4	LSPERAREL	268	0.300

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KVQAPRFAA	78	0.990
ANNs+QM	2	GVAELAEQA	166	0.950
ANNs+QM	3	RFAAAGVTV	83	0.720
ANNs+QM	4	PRFAAAGVT	82	0.570

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KVQAPRFAA	78	-1.715
QM	2	KVLHDEARL	140	-2.120
QM	3	TTMAAMPVL	131	-2.813

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KVLHDEARL	140	0.930
ANNs+QM	2	PLAAAGVDE	291	0.840
ANNs+QM	3	PRFAAAGVT	82	0.790
ANNs+QM	4	TADPSGLDI	59	0.780

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VLHDEARLV	141	1.000
ANNs+QM	2	APIAFNVVP	201	0.790
ANNs+QM	3	SKVQAPRFA	77	0.700
ANNs+QM	4	PIAFNVVPL	202	0.680

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EIEVEDAET	51	0.405
QM	2	VSGSGLAGV	159	-0.693

QM	3	GVAELAEQA	166	-0.693
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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	KVLHDEARL	140	2.485
QM	2	NVVPLAGSL	206	2.485
QM	3	GVAELAEQA	166	2.079
QM	4	AVIGGAEQL	176	2.079

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SKVQAPRFA	77	4.605
QM	2	QLVDVPTPL	284	2.708
QM	3	ALFVSGDNL	318	2.708
QM	4	WRKDPDVPL	98	2.303

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QLVDVPTPL	284	1.000
ANNs+QM	2	TTMAAMPVL	131	0.990
ANNs+QM	3	GVAELAEQA	166	0.980
ANNs+QM	4	AVIGGAEQL	176	0.980

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LSPERAREL	268	1.000
ANNs+QM	2	VAPIAFNVV	200	0.960
ANNs+QM	3	AAMPVLKVL	134	0.900
ANNs+QM	4	SGLAGVAEL	162	0.900

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IRFESRKIL	228	4.500
QM	2	WRKDPDVPL	98	4.094
QM	3	PRFAAAGVT	82	2.303
QM	4	GRGLALFVS	314	2.303

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GRGLALFVS	314	0.910
ANNs+QM	2	PRFAAAGVT	82	0.900
ANNs+QM	3	IRFESRKIL	228	0.860
ANNs+QM	4	RFAAAGVTV	83	0.440

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GRGLALFVS	314	0.990
ANNs+QM	2	PRFAAAGVT	82	0.980
ANNs+QM	3	IRFESRKIL	228	0.820

ANNs+QM	4	RFAAAGVTV	83	0.410
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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	DPSGLDIAL	61	1.000
ANNs+QM	2	VPVFTGHSL	250	1.000
ANNs+QM	3	SPERARELL	269	1.000
ANNs+QM	4	APIAFNVVP	201	0.970

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LDGATGVQL	277	3.689
QM	2	AETADPSGL	57	2.303
QM	3	GETDEDQKL	220	2.303
QM	4	FESRKILGI	230	2.303

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SPERARELL	269	2.054
QM	2	DPSGLDIAL	61	1.649
QM	3	QLVDVPTPL	284	0.956
QM	4	AVIGGAEQL	176	0.693

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	LRFESRKIL	228	3.401
QM	2	QLVDVPTPL	284	2.485
QM	3	TTMAAMPVL	131	2.197
QM	4	AAMPVLKVL	134	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YQAVSGSGL	156	2.996
QM	2	DPSGLDIAL	61	0.875
QM	3	AAMPVLKVL	134	0.875
QM	4	NVVPLAGSL	206	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AELAEQARA	168	4.382
QM	2	AETADPSGL	57	3.689
QM	3	GETDEDQKL	220	3.689
QM	4	VDVPTPLAA	286	2.996

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AELAEQARA	168	2.773
QM	2	AETADPSGL	57	2.079
QM	3	GETDEDQKL	220	1.792

QM	4	FESRKILGI	230	1.792
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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	VAPIAFNVV	200	1.000
ANNs+QM	2	APIAFNVVP	201	0.960
ANNs+QM	3	TADPSGLDI	59	0.890
ANNs+QM	4	SGLDIALFS	63	0.860

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TADPSGLDI	59	14.980
QM	2	VAPIAFNVV	200	14.600
QM	3	VPVFTGHSL	250	12.990
QM	4	VLHDEARLV	141	9.180

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TADPSGLDI	59	14.980
QM	2	VAPIAFNVV	200	14.600
QM	3	VPVFTGHSL	250	12.990
QM	4	VLHDEARLV	141	9.180

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	VAPIAFNVV	200	3.989
QM	2	AAMPVLKVL	134	1.759
QM	3	LPFESRKIL	228	1.376
QM	4	TTMAAMPVL	131	1.281

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPSGLDIAL	61	1.000
ANNs+QM	2	VPVFTGHSL	250	1.000
ANNs+QM	3	SPERARELL	269	1.000
ANNs+QM	4	APIAFNVVP	201	0.990

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPVFTGHSL	250	1.000
ANNs+QM	2	APIAFNVVP	201	0.990
ANNs+QM	3	TPLAAAGVD	290	0.980
ANNs+QM	4	DPSGLDIAL	61	0.970

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WRKDPDVPL	98	1.000
ANNs+QM	2	VPVFTGHSL	250	1.000
ANNs+QM	3	VAPIAFNVV	200	0.990

ANNs+QM	4	SPERARELL	269	0.900
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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	LSPERAREL	268	1.386
QM	2	AAMPVLKVL	134	1.281
QM	3	TADPSGLDI	59	0.884
QM	4	VSGSGLAGV	159	0.875

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GETDEDQKL	220	5.170
QM	2	AETADPSGL	57	5.075
QM	3	LDGATGVQL	277	3.784
QM	4	FESRKILGI	230	3.466

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AELAEQARA	168	3.689
QM	2	GETDEDQKL	220	2.868
QM	3	AETADPSGL	57	2.773
QM	4	FESRKILGI	230	2.773

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QLVDVPTPL	284	1.664
QM	2	YQAVSGSGL	156	1.386
QM	3	AQPLSPERA	265	1.386
QM	4	VLHDEARLV	141	0.788

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPSGLDIAL	61	1.000
ANNs+QM	2	TTMAAMPVL	131	1.000
ANNs+QM	3	AAMPVLKVL	134	1.000
ANNs+QM	4	APIAFNVVP	201	1.000

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPSGLDIAL	61	1.000
ANNs+QM	2	VPVFTGHSL	250	1.000
ANNs+QM	3	SPERARELL	269	1.000
ANNs+QM	4	APIAFNVVP	201	0.980

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VAPIAFNVV	200	0.770
ANNs+QM	2	TADPSGLDI	59	0.700
ANNs+QM	3	SGLDIALFS	63	0.650

ANNs+QM	4	TPLAAAGVD	290	0.640
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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	AAMPVLKVL	134	5.481
QM	2	NVVPLAGSL	206	4.605
QM	3	TTMAAMPVL	131	3.689
QM	4	DNLRKGAAL	324	3.401

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPVFTGHSL	250	9.430
QM	2	SPERARELL	269	9.310
QM	3	SGLAGVAEL	162	6.850
QM	4	GETDEDQKL	220	5.310

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPSGLDIAL	61	1.887
QM	2	NVVPLAGSL	206	1.792
QM	3	AAMPVLKVL	134	1.577
QM	4	FESRKILGI	230	1.482

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	DPSGLDIAL	61	1.463
QM	2	AAMPVLKVL	134	1.307
QM	3	LDGATGVQL	277	0.875
QM	4	VPVFTGHSL	250	0.588

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PIAFNVVPL	202	0.980
ANNs+QM	2	VSGDNLKRG	321	0.980
ANNs+QM	3	RFAAAGVTV	83	0.750
ANNs+QM	4	SLSINAEFA	257	0.580

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PGVPDGRGL	309	15.090
QM	2	RGLALFVSG	315	14.890
QM	3	SGLAGVAEL	162	14.050
QM	4	SGDNLKGA	322	13.360

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPSGLDIAL	61	0.940
ANNs+QM	2	AVIGGAEQL	176	0.930
ANNs+QM	3	VAPIAFNVV	200	0.930

ANNs+QM	4	LSPERAREL	268	0.870
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YQAVSGSGL	156	0.990
ANNs+QM	2	LSPERAREL	268	0.960
ANNs+QM	3	SARSQGRKL	37	0.920
ANNs+QM	4	PGVPDGRGL	309	0.900

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FESRKILGI	230	6.620
QM	2	AETADPSGL	57	2.996
QM	3	GETDEDQKL	220	2.996
QM	4	AELAEQARA	168	2.303

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LSPERAREL	268	1.000
ANNs+QM	2	SPERARELL	269	1.000
ANNs+QM	3	DPSGLDIAL	61	0.930
ANNs+QM	4	APIAFNVVP	201	0.820

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LSPERAREL	268	18.180
QM	2	PIAFNVVPL	202	11.980
QM	3	AVIGGAEQL	176	10.110
QM	4	VAPIAFNVV	200	10.060

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YQAVSGSGL	156	13.470
QM	2	QLVDVPTPL	284	11.380
QM	3	VPVFTGHSL	250	10.470
QM	4	DNLRKGAAL	324	8.380

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQPLSPERA	265	8.940
QM	2	AETADPSGL	57	6.470
QM	3	SGDNLRKGA	322	6.000
QM	4	PGVPDGRGL	309	5.670

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPVFTGHSL	250	18.220
QM	2	KVLHDEARL	140	11.100
QM	3	SPERARELL	269	10.780

QM	4	NVVPLAGSL	206	10.260
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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	VAPIAFNVV	200	3.640
QM	2	TADPSGLDI	59	3.100
QM	3	SPERARELL	269	2.450
QM	4	AVIGGAEQL	176	2.350

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAMPVLKVL	134	15.300
QM	2	VLHDEARLV	141	15.270
QM	3	ALFVSGDNL	318	15.230
QM	4	RFAAAGVTV	83	13.600

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRFESRKIL	228	6.300
QM	2	KVLHDEARL	140	4.360
QM	3	SKVQAPRFA	77	4.240
QM	4	IRRDPGVPD	305	3.400

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	GRGLALFVS	314	13.920
QM	2	LRFESRKIL	228	12.520
QM	3	AETADPSGL	57	12.000
QM	4	DPSGLDIAL	61	11.270

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PGVPDGRGL	309	10.460
QM	2	DPSGLDIAL	61	8.420
QM	3	NVVPLAGSL	206	7.600
QM	4	SPERARELL	269	7.200

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAMPVLKVL	134	2.060
QM	2	ALFVSGDNL	318	1.560
QM	3	TADPSGLDI	59	1.200
QM	4	VSGDNLRKG	321	0.920

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SGLAGVAEL	162	7.780
QM	2	AVIGGAEQL	176	7.740
QM	3	GETDEDQKL	220	7.140

QM	4	AELAEQARA	168	6.450
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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	RFAAAGVTV	83	0.780
ANNs+QM	2	AVIGGAEQL	176	0.620
ANNs+QM	3	AGSAMSKVQ	72	0.610
ANNs+QM	4	GVQLVDVPT	282	0.570

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SLSINAEFA	257	1.000
ANNs+QM	2	SGDNLRKGA	322	0.990
ANNs+QM	3	VAPIAFNVV	200	0.980
ANNs+QM	4	SKVQAPRFA	77	0.970