



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

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Antigen Name	Untitled
Scanned on	Tue Feb 23 23:28:53 2010
Length of input sequence	625 amino acids
Number of nonamers from input sequence	617
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	VNEPTAAAL	145	8.940
ANNs+QM	2	LLDVTPLSL	365	0.930
ANNs+QM	3	GSDISAIKS	557	0.650
ANNs+QM	4	AVAEAKAAL	547	0.600

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LLDVTPLSL	365	1.000
ANNs+QM	2	NKLLGSFEL	425	0.870

ANNs+QM	3	TTNSVVSVL	11	0.760
ANNs+QM	4	KDKMAMQRL	226	0.450

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LLDVTPLSL	365	1.000
ANNs+QM	2	TTNSVVSVL	11	0.960
ANNs+QM	3	RLREAAEKA	233	0.870
ANNs+QM	4	TLNKVDAAV	540	0.850

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLNKVDAAV	540	0.980
ANNs+QM	2	AVAEAKAAL	547	0.960
ANNs+QM	3	LLDVTPLSL	365	0.920
ANNs+QM	4	KDAGQIAGL	131	0.770

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KDAGQIAGL	131	0.970
ANNs+QM	2	QAASQATGA	586	0.850
ANNs+QM	3	TLNKVDAAV	540	0.740
ANNs+QM	4	VVAVGAALQ	344	0.470

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KDAGQIAGL	131	1.000
ANNs+QM	2	KMAMQRLRE	228	1.000
ANNs+QM	3	AVAEAKAAL	547	0.870
ANNs+QM	4	VNPDEVVAV	339	0.800

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVAEAKAAL	547	13.620
QM	2	EQRILVFDL	163	11.260
QM	3	AVTDLVKEL	321	8.030
QM	4	APEISARIL	88	7.500

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LREAAEKAK	234	0.970
ANNs+QM	2	AGVLKGEVK	353	0.950
ANNs+QM	3	VDAAVAEAK	544	0.870
ANNs+QM	4	EPTAAALAY	147	0.580

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VDAAVAEAK	544	0.950

ANNs+QM	2	LREAAEKAK	234	0.870
ANNs+QM	3	LVFDLGGGT	167	0.830
ANNs+QM	4	TRKPFQSVI	289	0.740

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VSEIDHVVL	304	11.610
QM	2	TRKPFQSVI	289	11.310
QM	3	VNEPTAAAL	145	10.760
QM	4	AVAEAKAAL	547	9.830

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFARNGEVL	41	1.000
ANNs+QM	2	ISARILMKL	91	0.680
ANNs+QM	3	LKRDAEAYL	99	0.530
ANNs+QM	4	KYTAPEISA	85	0.380

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EPTAAALAY	147	1.000
ANNs+QM	2	RLREAAEKA	233	0.970
ANNs+QM	3	LREAAEKAK	234	0.910
ANNs+QM	4	AVAEAKAAL	547	0.900

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPSIVAFAR	36	-0.511
QM	2	RIVNEPTAA	143	-2.120
QM	3	KVDAAVAEA	543	-2.120

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VVAVGAALQ	344	0.950
ANNs+QM	2	GLDKGEKEQ	156	0.840
ANNs+QM	3	GVLKGEVKD	354	0.820
ANNs+QM	4	TRKPFQSVI	289	0.800

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AGVLKGEVK	353	0.990
ANNs+QM	2	AFARNGEVL	41	0.900
ANNs+QM	3	AIKSAMEKL	562	0.850
ANNs+QM	4	LREAAEKAK	234	0.830

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPSIVAFAR	36	1.099
QM	2	EVVAVGAAL	343	0.405

QM	3	DVRNQAETL	508	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	EVVAVGAAL	343	3.178
QM	2	DVRNQAETL	508	2.485
QM	3	GVNPDEVVA	338	2.197
QM	4	LVFDLGGGT	167	2.079

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LKRDAEAYL	99	6.215
QM	2	NKLLGSFEL	425	6.215
QM	3	TPSIVAFAR	36	3.689
QM	4	LREAAEKAK	234	2.996

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLNKVDAAV	540	1.000
ANNs+QM	2	GQIAGLNVL	134	0.990
ANNs+QM	3	TAAALAYGL	149	0.980
ANNs+QM	4	AVAEAKAAL	547	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	GAALQAGVL	348	0.960
ANNs+QM	2	ISARILMKL	91	0.940
ANNs+QM	3	QAIYEAAQA	579	0.890
ANNs+QM	4	NKLLGSFEL	425	0.880

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TRKPFQSVI	289	4.094
QM	2	LRIVNEPTA	142	2.996
QM	3	GQIAGLNVL	134	1.792
QM	4	EQRILVFDL	163	0.588

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TRKPFQSVI	289	0.970
ANNs+QM	2	LREAAEKAK	234	0.240
ANNs+QM	3	NKLLGSFEL	425	0.210
ANNs+QM	4	GGTFDVSLL	173	0.180

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TRKPFQSVI	289	0.960
ANNs+QM	2	GQIAGLNVL	134	0.940
ANNs+QM	3	LREAAEKAK	234	0.700

ANNs+QM	4	GGTFDVSLL	173	0.440
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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	TRKPFQSVI	289	0.950
ANNs+QM	2	TPSIVAFAR	36	0.920
ANNs+QM	3	EPTAAALAY	147	0.840
ANNs+QM	4	EPGGAHPGS	600	0.590

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	WDQRVVDWL	204	4.094
QM	2	KDAGQIAGL	131	3.689
QM	3	KDKMAMQRL	226	3.689
QM	4	DDVVDAEVV	610	2.079

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APEISARIL	88	1.792
QM	2	VNEPTAAAL	145	1.099
QM	3	VSEIDHVVL	304	1.099
QM	4	KGEVKDVLL	357	1.099

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	APEISARIL	88	2.197
QM	2	GQIAGLNVL	134	2.197
QM	3	VNEPTAAAL	145	2.197
QM	4	VSEIDHVVL	304	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GQIAGLNVL	134	2.996
QM	2	NKLLGSFEL	425	2.996
QM	3	EQRILVFDL	163	1.974
QM	4	LKRDAEAYL	99	1.792

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NEPTAAALA	146	2.996
QM	2	KDAGQIAGL	131	1.609
QM	3	LEGGDPVVV	19	1.386
QM	4	AAVAEAKAA	546	1.386

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NEPTAAALA	146	2.197
QM	2	EPTAAALAY	147	1.910
QM	3	LEGGDPVVV	19	1.792

QM	4	DDVVDAEVV	610	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	QATKDAGQI	128	1.000
ANNs+QM	2	EPTAAALAY	147	0.960
ANNs+QM	3	TPSIVAFAR	36	0.880
ANNs+QM	4	APEISARIL	88	0.810

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APEISARIL	88	13.630
QM	2	KGVNPDEVV	337	12.310
QM	3	GGSTRMPAV	314	12.200
QM	4	TPSIVAFAR	36	11.090

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APEISARIL	88	13.630
QM	2	KGVNPDEVV	337	12.310
QM	3	GGSTRMPAV	314	12.200
QM	4	TPSIVAFAR	36	11.090

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	GQIAGLNVL	134	4.372
QM	2	KGVNPDEVV	337	4.007
QM	3	LEGGDPVVV	19	2.708
QM	4	DDVVDAEVV	610	2.580

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APEISARIL	88	1.000
ANNs+QM	2	EPTAAALAY	147	0.990
ANNs+QM	3	EPGGAHPGS	600	0.960
ANNs+QM	4	TPSIVAFAR	36	0.890

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EPTAAALAY	147	1.000
ANNs+QM	2	EPGGAHPGS	600	0.980
ANNs+QM	3	APEISARIL	88	0.970
ANNs+QM	4	NPDEVVAVG	340	0.920

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TRKPFQSVI	289	0.990
ANNs+QM	2	EPTAAALAY	147	0.950
ANNs+QM	3	APEISARIL	88	0.930

ANNs+QM	4	EPGGAHPGS	600	0.930
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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	ISARILMKL	91	1.877
QM	2	TTNSVVSVL	11	1.281
QM	3	GSKVPEDTL	533	0.788
QM	4	QATKDAGQI	128	0.693

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KDAGQIAGL	131	3.689
QM	2	WDQRVVDWL	204	3.091
QM	3	KDKMAMQRL	226	3.091
QM	4	ISARILMKL	91	2.963

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEGGDPVVV	19	3.689
QM	2	NEPTAAALA	146	2.996
QM	3	DDVVDAEVV	610	2.303
QM	4	EDTLNKVDA	538	1.609

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EQRILVFDL	163	3.178
QM	2	GQIAGLNVL	134	2.175
QM	3	RLREAAEKA	233	1.887
QM	4	EPTAAALAY	147	0.875

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MARAVGIDL	1	1.000
ANNs+QM	2	APEISARIL	88	1.000
ANNs+QM	3	TAAALAYGL	149	1.000
ANNs+QM	4	EPTAAALAY	147	0.930

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APEISARIL	88	1.000
ANNs+QM	2	EPGGAHPGS	600	0.980
ANNs+QM	3	TPSIVAFAR	36	0.960
ANNs+QM	4	EPTAAALAY	147	0.940

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PEDTLNKVD	537	0.720
ANNs+QM	2	DAAVAEAKA	545	0.700
ANNs+QM	3	GSDISAIKS	557	0.670

ANNs+QM	4	EPTAAALAY	147	0.660
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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	GQIAGLNVL	134	2.996
QM	2	EVVAVGAAL	343	2.996
QM	3	NKLLGSFEL	425	2.996
QM	4	VNEPTAAAL	145	2.303

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AFARNGEVL	41	10.700
QM	2	AVTDLVKEL	321	6.640
QM	3	KDKMAMQRL	226	6.430
QM	4	LKRDAEAYL	99	5.430

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ISARILMKL	91	2.580
QM	2	EQRILVFDL	163	2.580
QM	3	AVTDLVKEL	321	2.580
QM	4	TAAALAYGL	149	1.887

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	EPTAAALAY	147	2.667
QM	2	ISARILMKL	91	1.751
QM	3	KDAGQIAGL	131	1.569
QM	4	WDQRVVDWL	204	1.569

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFARNGEVL	41	1.000
ANNs+QM	2	LRIVNEPTA	142	0.960
ANNs+QM	3	RIVNEPTAA	143	0.920
ANNs+QM	4	GSKVPEDTL	533	0.890

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GGGTFDVSL	172	16.600
QM	2	KGEVKDVLL	357	14.200
QM	3	LKRDAEAYL	99	13.910
QM	4	VNEPTAAAL	145	11.440

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DAAVAEAKA	545	0.950
ANNs+QM	2	AFARNGEVL	41	0.940
ANNs+QM	3	LRIVNEPTA	142	0.940

ANNs+QM	4	AVAEAKAAL	547	0.890
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFARNGEVL	41	1.000
ANNs+QM	2	GSKVPEDTL	533	0.980
ANNs+QM	3	TTNSVVSVL	11	0.970
ANNs+QM	4	LRIVNEPTA	142	0.970

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEGGDPVVV	19	3.912
QM	2	DDVVDAEVV	610	2.996
QM	3	NEPTAAALA	146	2.303
QM	4	WDQRVVDWL	204	2.079

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFARNGEVL	41	1.000
ANNs+QM	2	TAAALAYGL	149	0.900
ANNs+QM	3	GQIAGLNVL	134	0.840
ANNs+QM	4	EPTAAALAY	147	0.840

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVAEAKAAL	547	14.110
QM	2	KDKMAMQRL	226	12.780
QM	3	GAALQAGVL	348	12.780
QM	4	AIKSAMEKL	562	12.780

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TTNSVVSVL	11	10.080
QM	2	WDQRVVDWL	204	9.220
QM	3	EVVAVGAAL	343	7.720
QM	4	ISARILMKL	91	6.770

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KYTAPEISA	85	7.540
QM	2	KGVNPDEVV	337	7.000
QM	3	LREAAEKAK	234	6.070
QM	4	PGGAHPGSA	601	6.010

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APEISARIL	88	12.660
QM	2	EVVAVGAAL	343	9.720
QM	3	TPSIVAFAR	36	8.990

QM	4	NPDEVVAVG	340	8.280
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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	APEISARIL	88	4.490
QM	2	VNPDEVVAV	339	4.140
QM	3	DVRNQAETL	508	3.920
QM	4	VNEPTAAAL	145	3.160

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LLDVTPLSL	365	17.200
QM	2	KDAGQIAGL	131	16.160
QM	3	GAALQAGVL	348	15.860
QM	4	TLNKVDAAV	540	14.950

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRIVNEPTA	142	3.880
QM	2	GGTFDVSLI	173	3.560
QM	3	LREAAEKAK	234	2.670
QM	4	GLDKGEKEQ	156	2.470

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	GGTFDVSL	173	9.330
QM	2	AVAEAKAAL	547	8.670
QM	3	LREAAEKAK	234	8.060
QM	4	GGGTFDVSL	172	7.790

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEIGEGVVE	181	13.110
QM	2	LEGGDPVVV	19	12.250
QM	3	MEKLGQESQ	567	10.650
QM	4	AEAKAALGG	549	7.930

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPSIVAFAR	36	2.090
QM	2	LVFDLGGGT	167	1.860
QM	3	QAIYEAAQA	579	0.940
QM	4	LRIVNEPTA	142	0.900

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEIGEGVVE	181	9.130
QM	2	MEKLGQESQ	567	8.460
QM	3	YEAAQAASQ	582	6.710

QM	4	AEAKAALGG	549	6.590
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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	VDAVAEAK	544	0.950
ANNs+QM	2	LREAAEKAK	234	0.920
ANNs+QM	3	AVAEAKAAL	547	0.890
ANNs+QM	4	AALGGSDIS	553	0.840

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DAVAEAKA	545	1.000
ANNs+QM	2	VVSVLEGGD	15	0.990
ANNs+QM	3	DVVDAEVVD	611	0.980
ANNs+QM	4	RLREAAEKA	233	0.970