



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

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Antigen Name	Untitled
Scanned on	Thu Mar 11 00:06:27 2010
Length of input sequence	586 amino acids
Number of nonamers from input sequence	578
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	ETTSGAAAA	346	0.760
ANNs+QM	2	TTSGAAAAL	347	0.600
ANNs+QM	3	VSGGVASSL	14	0.450
ANNs+QM	4	LSDAYLSVA	313	0.360

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AYLSVAEAL	316	1.000
ANNs+QM	2	RLGSYPAVL	447	1.000

ANNs+QM	3	PTRPHPLFV	531	0.940
ANNs+QM	4	ALVGKYVEL	305	0.910

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLPVLGLCL	386	1.000
ANNs+QM	2	IVIEAARSV	399	1.000
ANNs+QM	3	RLGSYPAVL	447	1.000
ANNs+QM	4	ARARGLPVL	382	0.960

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLGSYPAVL	447	1.000
ANNs+QM	2	IVIEAARSV	399	0.990
ANNs+QM	3	TTSGAAAAL	347	0.950
ANNs+QM	4	ALVGKYVEL	305	0.940

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QTATKHLFV	6	0.980
ANNs+QM	2	SLGKGLTAS	21	0.980
ANNs+QM	3	ARARGLPVL	382	0.910
ANNs+QM	4	PTRPHPLFV	531	0.820

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QTATKHLFV	6	1.000
ANNs+QM	2	IVIEAARSV	399	1.000
ANNs+QM	3	PTRPHPLFV	531	1.000
ANNs+QM	4	ALVGKYVEL	305	0.990

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TTSGAAAAL	347	9.910
QM	2	SRPTRPHPL	529	9.500
QM	3	ARARGLPVL	382	8.490
QM	4	LHVSLVPYL	184	8.260

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRPTRPHPL	529	0.610
ANNs+QM	2	AKERRGEYL	107	0.300
ANNs+QM	3	KIGAIAYAR	375	0.300
ANNs+QM	4	IDYKAGELL	546	0.280

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GAIAYARAR	377	1.000

ANNs+QM	2	KIGAIAYAR	375	0.860
ANNs+QM	3	RILAMAQPD	132	0.760
ANNs+QM	4	AAAALGDVH	351	0.680

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GKGLTASSL	23	10.660
QM	2	RLGSYPAVL	447	10.500
QM	3	VSGGVASSL	14	7.280
QM	4	IDYKAGELL	546	6.560

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AYLSVAEAL	316	0.840
ANNs+QM	2	QTATKHLFV	6	0.810
ANNs+QM	3	VASSLGKGL	18	0.510
ANNs+QM	4	PTRPHPLFV	531	0.460

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GAIAYARAR	377	0.970
ANNs+QM	2	TTSGAAAAL	347	0.950
ANNs+QM	3	KRRILAMAQ	130	0.940
ANNs+QM	4	GCETTSGAA	344	0.710

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KIGAIAYAR	375	3.401
QM	2	HLFVSGGVA	11	-2.813
QM	3	RLGSYPAVL	447	-2.813

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PHITDEIKR	123	0.990
ANNs+QM	2	KIGAIAYAR	375	0.860
ANNs+QM	3	IDYKAGELL	546	0.750
ANNs+QM	4	GAIAYARAR	377	0.640

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ANVTGQVY	94	0.790
ANNs+QM	2	ALVGKYVEL	305	0.690
ANNs+QM	3	AYLSVAEAL	316	0.650
ANNs+QM	4	AAAALGDVH	351	0.520

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KIGAIAYAR	375	1.504
QM	2	GAIAYARAR	377	1.099

QM	3	EIVAGEADL	434	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	KIGAIAYAR	375	2.303
QM	2	GAIAYARAR	377	2.303
QM	3	IVIEAARSV	399	2.079
QM	4	ETTSGAAAA	346	1.099

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GKGLTASSL	23	6.215
QM	2	AKERRGEYL	107	6.215
QM	3	TKPTQHSVA	200	4.605
QM	4	PKVLHREEL	260	3.912

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLPVLGLCL	386	1.000
ANNs+QM	2	IDYKAGELL	546	1.000
ANNs+QM	3	GAIAYARAR	377	0.990
ANNs+QM	4	IVIEAARSV	399	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	AKERRGEYL	107	1.000
ANNs+QM	2	PKVLHREEL	260	1.000
ANNs+QM	3	ARARGLPVL	382	1.000
ANNs+QM	4	SRPTRPHPL	529	1.000

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARARGLPVL	382	4.094
QM	2	SRPTRPHPL	529	4.094
QM	3	KRRILAMAQ	130	1.792
QM	4	RLGSYPAVL	447	0.993

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRPTRPHPL	529	0.660
ANNs+QM	2	KRRILAMAQ	130	0.640
ANNs+QM	3	ARARGLPVL	382	0.360
ANNs+QM	4	IRGIEGKIG	369	0.090

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARARGLPVL	382	1.000
ANNs+QM	2	KRRILAMAQ	130	0.960
ANNs+QM	3	SRPTRPHPL	529	0.520

ANNs+QM	4	PHITDEIKR	123	0.510
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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	HPQTATKHL	4	1.000
ANNs+QM	2	SRPTRPHPL	529	0.800
ANNs+QM	3	ARARGLPVL	382	0.530
ANNs+QM	4	QTATKHLFV	6	0.250

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDYKAGELL	546	5.298
QM	2	CDRDVPEAL	224	4.094
QM	3	HEPHETVRI	296	2.303
QM	4	IEAARSVGL	401	2.303

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LHVSLVPYL	184	3.846
QM	2	PHETVRIAL	298	2.460
QM	3	HPQTATKHL	4	0.956
QM	4	VSGGVASSL	14	0.956

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	LHVSLVPYL	184	5.598
QM	2	ARARGLPVL	382	3.114
QM	3	SRPTRPHPL	529	2.708
QM	4	PHETVRIAL	298	2.603

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GKGLTASSL	23	2.996
QM	2	AKERRGEYL	107	2.996
QM	3	VSGGVASSL	14	0.875
QM	4	VASSLGKGL	18	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IEAARSVGL	401	3.689
QM	2	CETTSGAAA	345	2.996
QM	3	IDYKAGELL	546	1.609
QM	4	HEPHETVRI	296	1.386

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ANVTTGQVY	94	2.485
QM	2	REELDAFVV	265	2.197
QM	3	IEAARSVGL	401	2.079

QM	4	EGKIGAIAY	373	1.910
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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	QTATKHLFV	6	0.950
ANNs+QM	2	GAIAYARAR	377	0.840
ANNs+QM	3	IAYARARGL	379	0.750
ANNs+QM	4	EGKIGAIAY	373	0.660

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VASSLGKGL	18	11.160
QM	2	LGSYPVLE	448	9.180
QM	3	GAIAYARAR	377	7.440
QM	4	HPQTATKHL	4	6.360

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VASSLGKGL	18	11.160
QM	2	LGSYPVLE	448	9.180
QM	3	GAIAYARAR	377	7.440
QM	4	HPQTATKHL	4	6.360

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	REELDAFVV	265	2.485
QM	2	HLFVSGGVA	11	1.792
QM	3	IVIEAARSV	399	1.686
QM	4	LSDAYLSVA	313	1.376

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPQTATKHL	4	1.000
ANNs+QM	2	QTATKHLFV	6	0.860
ANNs+QM	3	PTRPHPLFV	531	0.550
ANNs+QM	4	TTSGAAAAL	347	0.250

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QTATKHLFV	6	0.910
ANNs+QM	2	PTRPHPLFV	531	0.860
ANNs+QM	3	HPQTATKHL	4	0.750
ANNs+QM	4	TKPTQHSVA	200	0.540

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPQTATKHL	4	1.000
ANNs+QM	2	QTATKHLFV	6	0.980
ANNs+QM	3	SRPTRPHPL	529	0.950

ANNs+QM	4	PTRPHPLFV	531	0.730
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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	VSGGVASSL	14	1.099
QM	2	LSDAYLSVA	313	0.971
QM	3	QTATKHLFV	6	0.788
QM	4	TTSGAAAAL	347	0.693

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IEAARSVGL	401	6.461
QM	2	CDRDVPEAL	224	3.091
QM	3	IDYKAGELL	546	2.996
QM	4	HEPHETVRI	296	2.868

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	REELDAFVV	265	3.784
QM	2	CETTSGAAA	345	3.689
QM	3	IEAARSVGL	401	2.773
QM	4	HEPHETVRI	296	2.079

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EGKIGAIAY	373	2.667
QM	2	GLPVLGLCL	386	1.569
QM	3	RLGSYPAVL	447	1.482
QM	4	ALVGKYVEL	305	1.058

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPQTATKHL	4	1.000
ANNs+QM	2	TTSGAAAAL	347	1.000
ANNs+QM	3	QTATKHLFV	6	0.950
ANNs+QM	4	PTRPHPLFV	531	0.880

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPQTATKHL	4	1.000
ANNs+QM	2	QTATKHLFV	6	0.970
ANNs+QM	3	PTRPHPLFV	531	0.920
ANNs+QM	4	IAYARARGL	379	0.500

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QTATKHLFV	6	0.800
ANNs+QM	2	AAAALGDVH	351	0.710
ANNs+QM	3	PHITDEIKR	123	0.640

ANNs+QM	4	GLPVLGLCL	386	0.630
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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	ALVGKYVEL	305	4.605
QM	2	IAYARARGL	379	3.689
QM	3	LHVSLVPYL	184	2.996
QM	4	AYLSVAEAL	316	2.996

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HPQTATKHL	4	13.370
QM	2	IDYKAGELL	546	8.430
QM	3	EIVAGEADL	434	5.640
QM	4	VASSLGKGL	18	2.580

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LHVSLVPYL	184	2.485
QM	2	VASSLGKGL	18	1.982
QM	3	GLPVLGLCL	386	1.792
QM	4	ARARGLPVL	382	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	EGKIGAIAY	373	1.569
QM	2	ARARGLPVL	382	1.569
QM	3	AYLSVAEAL	316	1.463
QM	4	CDRDVPEAL	224	1.394

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AAAALGDVH	351	0.870
ANNs+QM	2	SLGKLTAS	21	0.790
ANNs+QM	3	EIVAGEADL	434	0.790
ANNs+QM	4	RLGSYPVL	447	0.710

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLPVLGLCL	386	19.240
QM	2	HEPHETVRI	296	16.410
QM	3	SRPTRPHPL	529	14.080
QM	4	AYLSVAEAL	316	12.550

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TTSGAAAAL	347	0.980
ANNs+QM	2	AYLSVAEAL	316	0.890
ANNs+QM	3	VASSLGKGL	18	0.850

ANNs+QM	4	SRPTRPHPL	529	0.790
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SRPTRPHPL	529	1.000
ANNs+QM	2	AYLSVAEAL	316	0.990
ANNs+QM	3	RLGSYPAVL	447	0.960
ANNs+QM	4	VASSLGKGL	18	0.950

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HEPHETVRI	296	6.215
QM	2	REELDAFVV	265	3.219
QM	3	IEAARSVGL	401	2.996
QM	4	CETTSGAAA	345	2.303

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARARGLPVL	382	0.610
ANNs+QM	2	IAYARARGL	379	0.550
ANNs+QM	3	QTATKHLFV	6	0.540
ANNs+QM	4	IEAARSVGL	401	0.440

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLPVLGLCL	386	17.910
QM	2	SRPTRPHPL	529	16.510
QM	3	IAYARARGL	379	11.450
QM	4	EIVAGEADL	434	11.440

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SRPTRPHPL	529	12.380
QM	2	AYLSVAEAL	316	11.130
QM	3	CDRDVPEAL	224	6.890
QM	4	RLGSYPAVL	447	6.760

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SRPTRPHPL	529	11.330
QM	2	IRGIEGKIG	369	8.670
QM	3	ALVGKYVEL	305	4.130
QM	4	VASSLGKGL	18	3.710

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HPQTATKHL	4	14.410
QM	2	VSGGVASSL	14	10.030
QM	3	AYLSVAEAL	316	10.030

QM	4	AKERRGEYL	107	9.900
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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	VTEDGAETD	68	4.260
QM	2	IVIEAARSV	399	3.360
QM	3	HEPHETVRI	296	1.420
QM	4	ATKHLFVSG	8	1.220

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLGSYPAVL	447	21.110
QM	2	IDYKAGELL	546	16.890
QM	3	ALVGKYVEL	305	16.340
QM	4	PLFVAFVGA	536	15.130

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARARGLPVL	382	9.640
QM	2	SRPTRPHPL	529	7.960
QM	3	PHITDEIKR	123	5.380
QM	4	ALVGKYVEL	305	4.530

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	SRPTRPHPL	529	16.240
QM	2	RLGSYPAVL	447	10.680
QM	3	ARARGLPVL	382	10.630
QM	4	IEAARSVGL	401	9.790

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PHETVRIAL	298	11.650
QM	2	SDGCETTSG	342	9.700
QM	3	IDYKAGELL	546	8.160
QM	4	CDRDVPEAL	224	7.700

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GAIAYARAR	377	3.270
QM	2	HLFVSGGVA	11	2.700
QM	3	RILAMAQPD	132	1.270
QM	4	KIGAIAYAR	375	1.260

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	CETTSGAAA	345	5.620
QM	2	GKGLTASSL	23	5.310
QM	3	EGKIGAIAY	373	4.800

QM	4	GAIAYARAR	377	4.400
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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	GAIAYARAR	377	1.000
ANNs+QM	2	SGAAAALGD	349	0.840
ANNs+QM	3	SLGKGLTAS	21	0.830
ANNs+QM	4	SDAYLSVAE	314	0.780

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QTATKHLFV	6	1.000
ANNs+QM	2	VASSLGKGL	18	0.990
ANNs+QM	3	IVIEAARSV	399	0.990
ANNs+QM	4	AAAALGDVH	351	0.980