



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

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Antigen Name	Untitled
Scanned on	Mon Mar 15 20:32:31 2010
Length of input sequence	494 amino acids
Number of nonamers from input sequence	486
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	AGDVTLLGP	464	0.760
ANNs+QM	2	TDDPGGAAL	226	0.710
ANNs+QM	3	ATELGIRVL	238	0.660
ANNs+QM	4	AQQVAAAAS	446	0.600

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VTLLGPEIL	467	1.000
ANNs+QM	2	GMSGIARIL	22	0.990

ANNs+QM	3	ALAQRATEL	233	0.940
ANNs+QM	4	ALGALLAAV	302	0.870

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GMSGIARIL	22	1.000
ANNs+QM	2	RIGHDASSL	59	1.000
ANNs+QM	3	ALAQRATEL	233	1.000
ANNs+QM	4	SVPGRHMAL	292	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALNALGALL	299	1.000
ANNs+QM	2	ALGALLAAV	302	1.000
ANNs+QM	3	TLAAARMVL	362	0.990
ANNs+QM	4	ALAQRATEL	233	0.960

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALAQRATEL	233	0.980
ANNs+QM	2	ALNALGALL	299	0.980
ANNs+QM	3	AQRATELGI	235	0.880
ANNs+QM	4	QGVGAVAHI	266	0.810

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALGALLAAV	302	0.950
ANNs+QM	2	QIGAPADEV	311	0.460
ANNs+QM	3	VCTDDPGGA	224	0.390
ANNs+QM	4	FAAEFGRAL	393	0.310

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ALGALLAAV	302	10.670
QM	2	ALNALGALL	299	9.890
QM	3	AHIRLASEL	272	9.510
QM	4	ATELGIRVL	238	8.400

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALAQRATEL	233	0.920
ANNs+QM	2	EILTALRVR	473	0.820
ANNs+QM	3	KAFAAEFGR	391	0.780
ANNs+QM	4	AQRATELGI	235	0.390

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ISATLAAAR	359	1.000

ANNs+QM	2	KAFAAEFGR	391	0.990
ANNs+QM	3	EILTALRVR	473	0.950
ANNs+QM	4	AQQVAAAAS	446	0.800

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RIGHDASSL	59	13.370
QM	2	RRRGIPVVL	95	10.920
QM	3	PVVLRPVAVL	100	9.620
QM	4	AHIRLASEL	272	7.470

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VYGAREQPL	412	0.870
ANNs+QM	2	AQRATELGI	235	0.780
ANNs+QM	3	RRRGIPVVL	95	0.410
ANNs+QM	4	PADEVLDGL	315	0.390

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GVHALRARG	47	0.980
ANNs+QM	2	GRHMALNAL	295	0.980
ANNs+QM	3	KAFAAEFGR	391	0.970
ANNs+QM	4	ISATLAAAR	359	0.960

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KAFAAEFGR	391	1.686
QM	2	EILTALRVR	473	-1.427
QM	3	RILLDRGGL	28	-2.120

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KAFAAEFGR	391	1.000
ANNs+QM	2	PGGAALAQR	229	0.980
ANNs+QM	3	RRGIPVVLRL	96	0.950
ANNs+QM	4	DCFVAEADE	165	0.940

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQRATELGI	235	1.000
ANNs+QM	2	ALAQRATEL	233	0.970
ANNs+QM	3	AQQVAAAAS	446	0.880
ANNs+QM	4	AHIRLASEL	272	0.830

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EILTALRVR	473	3.807
QM	2	ISATLAAAR	359	2.708

QM	3	KAFAAEFGR	391	-0.105
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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	ISATLAAAR	359	3.401
QM	2	EILTALRVR	473	3.401
QM	3	KAFAAEFGR	391	2.708
QM	4	SVPGRHMAL	292	1.386

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRGIPVVL	96	4.382
QM	2	ISATLAAAR	359	3.689
QM	3	KAFAAEFGR	391	3.689
QM	4	EILTALRVR	473	3.689

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALAQRATEL	233	1.000
ANNs+QM	2	ALNALGALL	299	1.000
ANNs+QM	3	TLAAARMVL	362	1.000
ANNs+QM	4	GRHMALNAL	295	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	LRPAVLAKL	103	1.000
ANNs+QM	2	ALAQRATEL	233	1.000
ANNs+QM	3	SVPGRHMAL	292	1.000
ANNs+QM	4	GRHMALNAL	295	1.000

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRRGIPVVL	95	5.193
QM	2	LRPAVLAKL	103	4.094
QM	3	GRHMALNAL	295	4.094
QM	4	IRLASELAT	274	2.996

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRRGIPVVL	95	1.000
ANNs+QM	2	RRGIPVCLR	96	1.000
ANNs+QM	3	GRHMALNAL	295	0.840
ANNs+QM	4	GALLAAVQI	304	0.430

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRRGIPVVL	95	1.000
ANNs+QM	2	RRGIPVCLR	96	1.000
ANNs+QM	3	GRHMALNAL	295	1.000

ANNs+QM	4	IRLASELAT	274	0.960
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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	RPAVLAKLM	104	1.000
ANNs+QM	2	HPTEISATL	355	1.000
ANNs+QM	3	SPGDVIVTM	454	1.000
ANNs+QM	4	GALLAAVQI	304	0.670

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HDASSDLL	62	5.298
QM	2	TDDPGGAAL	226	3.689
QM	3	KESRGVHAL	43	2.303
QM	4	ALNALGALL	299	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QHCGLDPSF	138	4.357
QM	2	AHIRLASEL	272	3.664
QM	3	HPTEISATL	355	1.649
QM	4	THAAIPKTN	80	1.361

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	AHIRLASEL	272	5.193
QM	2	LRPAVLAKL	103	3.114
QM	3	GRHMALNAL	295	3.114
QM	4	ATELGIRVL	238	2.603

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GMSGIARIL	22	0.875
QM	2	LRPAVLAKL	103	0.875
QM	3	AHIRLASEL	272	0.875
QM	4	ALNALGALL	299	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEFGRALNA	395	5.075
QM	2	TEISATLAA	357	4.382
QM	3	KESRGVHAL	43	2.996
QM	4	GSVPGETMA	249	2.079

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEISATLAA	357	3.807
QM	2	AEFGRALNA	395	2.890
QM	3	KESRGVHAL	43	2.485

QM	4	HDASSLDLL	62	0.405
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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	GALLAAVQI	304	1.000
ANNs+QM	2	HPTEISATL	355	0.900
ANNs+QM	3	KAFAAEFGR	391	0.840
ANNs+QM	4	AQRATELGI	235	0.820

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GALLAAVQI	304	13.590
QM	2	LAGVSGASV	420	12.920
QM	3	YGSVPGETM	248	12.710
QM	4	DFSAVAQQV	441	12.620

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GALLAAVQI	304	13.590
QM	2	LAGVSGASV	420	12.920
QM	3	YGSVPGETM	248	12.710
QM	4	DFSAVAQQV	441	12.620

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	IGAPADEVL	312	3.391
QM	2	QQQGVGAVA	264	2.996
QM	3	VTLLGPEIL	467	2.475
QM	4	QGVGAVAHI	266	2.015

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPTEISATL	355	1.000
ANNs+QM	2	RPAVLAKLM	104	0.950
ANNs+QM	3	SPGDVIVTM	454	0.640
ANNs+QM	4	FAAEFGRAL	393	0.570

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SPGDVIVTM	454	1.000
ANNs+QM	2	HPTEISATL	355	0.960
ANNs+QM	3	RPAVLAKLM	104	0.950
ANNs+QM	4	FAAEFGRAL	393	0.570

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPTEISATL	355	1.000
ANNs+QM	2	SPGDVIVTM	454	1.000
ANNs+QM	3	YSRTKAFAA	387	0.810

ANNs+QM	4	YAHHPTEIS	352	0.790
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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	GSVPGETMA	249	1.386
QM	2	ATAVVTTHA	74	1.099
QM	3	FAAEFGRAL	393	1.099
QM	4	ATELGIRVL	238	0.875

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KESRGVHAL	43	5.768
QM	2	HDASSDLL	62	3.689
QM	3	TDDPGGAAL	226	2.996
QM	4	VGAVAHIRL	268	2.868

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEFGRALNA	395	4.094
QM	2	TEISATLAA	357	3.689
QM	3	KESRGVHAL	43	2.079
QM	4	HDASSDLL	62	0.693

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QQQGVGAVA	264	2.357
QM	2	ALGALLAAV	302	2.079
QM	3	AQRATELGI	235	1.974
QM	4	ALNALGALL	299	1.386

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPAVLAKLM	104	1.000
ANNs+QM	2	HPTEISATL	355	1.000
ANNs+QM	3	RRRGIPVVL	95	0.970
ANNs+QM	4	LRPAVLAKL	103	0.960

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPTEISATL	355	1.000
ANNs+QM	2	SPGDVIVTM	454	1.000
ANNs+QM	3	RPAVLAKLM	104	0.990
ANNs+QM	4	KAFAAEFGR	391	0.740

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KAFAAEFGR	391	0.760
ANNs+QM	2	AQRATELGI	235	0.710
ANNs+QM	3	YSRTKAFAA	387	0.700

ANNs+QM	4	RPAVLAKLM	104	0.690
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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	AHIRLASEL	272	3.584
QM	2	VTLLGPEIL	467	2.996
QM	3	RILLDRGGL	28	2.303
QM	4	GALLAAVQI	304	2.303

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FAAEFGRAL	393	7.550
QM	2	ALNALGALL	299	6.970
QM	3	SPGDVIVTM	454	5.370
QM	4	TDDPGGAAL	226	5.110

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FAAEFGRAL	393	2.078
QM	2	GMSGIARIL	22	1.887
QM	3	RRRGIPVVL	95	1.887
QM	4	HPTEISATL	355	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	LRPAVLAKL	103	2.444
QM	2	SPGDVIVTM	454	1.905
QM	3	HDASSLDLL	62	1.569
QM	4	HPTEISATL	355	1.281

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FAAEFGRAL	393	0.990
ANNs+QM	2	TMGAGDVTL	461	0.990
ANNs+QM	3	TDDPGGAAL	226	0.980
ANNs+QM	4	QQGVGAHAH	265	0.970

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGAVAHIRL	268	16.770
QM	2	RGIPVVLRP	97	15.360
QM	3	LRPAVLAKL	103	15.280
QM	4	PGGAALAQR	229	15.220

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPTEISATL	355	1.000
ANNs+QM	2	FAAEFGRAL	393	1.000
ANNs+QM	3	RPAVLAKLM	104	0.980

ANNs+QM	4	GMSGIARIL	22	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	VYGAREQPL	412	0.990
ANNs+QM	2	FAAEFGRAL	393	0.980
ANNs+QM	3	ALAQRATEL	233	0.950
ANNs+QM	4	AHIRLASEL	272	0.870

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KESRGVHAL	43	2.996
QM	2	AQRATELGI	235	2.303
QM	3	TEISATLAA	357	2.303
QM	4	AEFGRALNA	395	2.303

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALAQRATEL	233	1.000
ANNs+QM	2	TMGAGDVTL	461	0.910
ANNs+QM	3	TLAAARMVL	362	0.740
ANNs+QM	4	VGAVAHIRL	268	0.730

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ALAQRATEL	233	18.850
QM	2	TLAAARMVL	362	15.510
QM	3	VGAVAHIRL	268	15.110
QM	4	SVPGRHMAL	292	14.510

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KESRGVHAL	43	14.470
QM	2	VTLLGPEIL	467	6.710
QM	3	GMSGIARIL	22	5.970
QM	4	TDDPGGAAL	226	5.470

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SVPGRHMAL	292	9.200
QM	2	RRRGIPVVL	95	6.530
QM	3	QIGAPADEV	311	6.340
QM	4	VCTDDPGGA	224	6.200

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PADEVLDGL	315	11.140
QM	2	RPAVLAKLM	104	10.960
QM	3	RIGHDASSL	59	10.690

QM	4	HPTEISATL	355	10.190
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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	SVPGRHMAL	292	7.730
QM	2	HPTEISATL	355	5.120
QM	3	SPGDVIVTM	454	3.150
QM	4	FAAEFGRAL	393	3.120

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLAAARMVL	362	19.580
QM	2	ALNALGALL	299	15.870
QM	3	FAAEFGRAL	393	15.200
QM	4	PADEVLDGL	315	14.660

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRRGIPVVL	95	10.300
QM	2	GRHMALNAL	295	9.410
QM	3	RRGIPVVL	96	6.980
QM	4	IRIGHDASS	58	5.830

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	GRHMALNAL	295	17.330
QM	2	RRRGIPVVL	95	14.110
QM	3	SVPGRHMAL	292	13.810
QM	4	LRPAVLAKL	103	13.440

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KESRGVHAL	43	16.550
QM	2	TEISATLAA	357	9.650
QM	3	PSFAVGGEL	144	7.740
QM	4	SVPGRHMAL	292	7.700

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ISATLAAAR	359	3.450
QM	2	KAFAAEFGR	391	3.100
QM	3	ALNALGALL	299	2.580
QM	4	ATAVVTTHA	74	2.570

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEFGALNA	395	10.290
QM	2	KESRGVHAL	43	7.170
QM	3	TEISATLAA	357	5.760

QM	4	AHIRLASEL	272	5.540
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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	VAAAASPGD	449	0.980
ANNs+QM	2	KAFAAEFGR	391	0.950
ANNs+QM	3	PGGAALAQR	229	0.730
ANNs+QM	4	AVQIGAPAD	309	0.720

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRRGIPVVL	95	1.000
ANNs+QM	2	IGAPAEVL	312	0.980
ANNs+QM	3	KAFAAEFGR	391	0.980
ANNs+QM	4	LNAAEVVFV	401	0.980