



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

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Antigen Name	Untitled
Scanned on	Tue Feb 2 16:31:14 2010
Length of input sequence	490 amino acids
Number of nonamers from input sequence	482
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	YRDVLARLL	94	0.940
ANNs+QM	2	VIDPKAAAK	392	0.900
ANNs+QM	3	ALDEAAFAA	356	0.750
ANNs+QM	4	RAEIYRDVL	90	0.740

ALLELE: HLA-A2

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SYLALLDAL	57	1.000
ANNs+QM	2	LLPSTPRQL	218	1.000

ANNs+QM	3	KFAHLPTVL	243	1.000
ANNs+QM	4	IYRDVLARL	93	0.970

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLALLGWSI	283	1.000
ANNs+QM	2	ALDEAAFAA	356	1.000
ANNs+QM	3	AALAALTSV	412	0.960
ANNs+QM	4	LLPSTPRQL	218	0.950

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALDEAAFAA	356	1.000
ANNs+QM	2	LLPSTPRQL	218	0.990
ANNs+QM	3	AAFAAAAEL	360	0.990
ANNs+QM	4	ELGPDGAAV	401	0.990

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LVRGPVTFA	170	0.980
ANNs+QM	2	YLALLGWSI	283	0.980
ANNs+QM	3	IYRDVLARL	93	0.830
ANNs+QM	4	AALAALTSV	412	0.790

ALLELE: HLA-A*0206

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLALLGWSI	283	1.000
ANNs+QM	2	DLFGLDEM V	296	0.990
ANNs+QM	3	ELGPDGAAV	401	0.960
ANNs+QM	4	DVGDFTVRL	336	0.930

ALLELE: HLA-A*0205

Threshold for 4 % with score: 5.950

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IEAALKDAL	428	11.190
QM	2	AAFAAAAEL	360	10.340
QM	3	DVGDFTVRL	336	9.750
QM	4	IYRDVLARL	93	9.730

ALLELE: HLA-A*1101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SVPDFALTR	181	1.000
ANNs+QM	2	VIDPKAAAK	392	0.960
ANNs+QM	3	LLPSTPRQL	218	0.370
ANNs+QM	4	TDAQRAAYL	140	0.250

ALLELE: HLA-A11

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SVPDFALTR	181	1.000

ANNs+QM	2	VIDPKAAAK	392	0.970
ANNs+QM	3	HLDTHGHHI	347	0.830
ANNs+QM	4	GPDGAAVLD	403	0.590

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KFAHLPTVL	243	10.580
QM	2	HIALDEAAF	354	9.830
QM	3	ERIPKFAHL	239	8.610
QM	4	YLALLGWSI	283	7.750

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KFAHLPTVL	243	1.000
ANNs+QM	2	SYLALLDAL	57	0.990
ANNs+QM	3	GYDNFDRHL	131	0.990
ANNs+QM	4	IYRDVLARL	93	0.980

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SVPDFALTR	181	0.970
ANNs+QM	2	DTHGHHIAL	349	0.890
ANNs+QM	3	AVLDAALAA	408	0.860
ANNs+QM	4	TPRQLALHQ	222	0.800

ALLELE: HLA-A*3101

Threshold for 4 % with score: -1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SVPDFALTR	181	1.386
QM	2	VIDPKAAAK	392	-1.609
QM	3	RMPDDDLAW	159	-2.120

ALLELE: HLA-A*31

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SVPDFALTR	181	0.960
ANNs+QM	2	VIDPKAAAK	392	0.790
ANNs+QM	3	EAALKDALI	429	0.760
ANNs+QM	4	PKAAAKELG	395	0.610

ALLELE: HLA-A*0301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VIDPKAAAK	392	0.990
ANNs+QM	2	AVLDAALAA	408	0.960
ANNs+QM	3	ALDEAAFAA	356	0.900
ANNs+QM	4	LLPSTPRQL	218	0.850

ALLELE: HLA-A*3302

Threshold for 4 % with score: -0.105

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SVPDFALTR	181	2.708
QM	2	DVGDFTVRL	336	0.405

QM	3	DLFGLDEM V	296	-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	SVPDFALTR	181	5.298
QM	2	DVGDFTVRL	336	3.178
QM	3	AVLDAALAA	408	2.079
QM	4	VIDPKAAAK	392	1.504

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LKDALIEGL	432	6.215
QM	2	AKELGPDGA	399	4.605
QM	3	SVPDFALTR	181	3.689
QM	4	DLVRGPVTF	169	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DLFGLDEM V	296	1.000
ANNs+QM	2	HLDTHGHHI	347	1.000
ANNs+QM	3	ALDEAAFAA	356	1.000
ANNs+QM	4	GPDGAAVLD	403	0.990

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TDAQRAAYL	140	1.000
ANNs+QM	2	AAFAAAAEL	360	1.000
ANNs+QM	3	YRDVLARLL	94	0.970
ANNs+QM	4	QRDSEESYL	51	0.940

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QRDSEESYL	51	4.094
QM	2	YRDVLARLL	94	2.890
QM	3	RQLALHQAL	224	2.890
QM	4	ERIPKFAHL	239	2.890

ALLELE: HLA-B27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ERIPKFAHL	239	1.000
ANNs+QM	2	YRDVLARLL	94	0.910
ANNs+QM	3	QRDSEESYL	51	0.430
ANNs+QM	4	DLFGLDEM V	296	0.200

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ERIPKFAHL	239	1.000
ANNs+QM	2	YRDVLARLL	94	0.990
ANNs+QM	3	RQLALHQAL	224	0.660

ANNs+QM	4	KFAHLPTVL	243	0.660
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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	IPEGLLNLYL	276	1.000
ANNs+QM	2	DLVRGPVTF	169	0.790
ANNs+QM	3	GPDGAAVLD	403	0.730
ANNs+QM	4	LVQTRIVVL	368	0.690

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDAQRAAYL	140	3.689
QM	2	FDQKKADAL	319	3.689
QM	3	ADALNAEHI	324	3.689
QM	4	IEAALKDAL	428	2.303

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPEGLLNLYL	276	2.930
QM	2	GYDNFDRHL	131	1.792
QM	3	GHHIALDEA	352	1.361
QM	4	HHIALDEAA	353	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	YRDVLARLL	94	3.807
QM	2	ERIPKFAHL	239	3.401
QM	3	QRDSEESYL	51	3.114
QM	4	IPEGLLNLYL	276	2.603

ALLELE: HLA-B*3902

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RQLALHQAL	224	3.178
QM	2	LKDALIEGL	432	3.178
QM	3	SYLALLDAL	57	0.875
QM	4	RAEIYRDVL	90	0.875

ALLELE: HLA-B40

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEIYRDVLA	91	5.075
QM	2	KELGPDGAA	400	4.094
QM	3	DEAAFAAAA	358	3.689
QM	4	IEAALKDAL	428	3.689

ALLELE: HLA-B*4403

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DEMVAAFDV	301	4.394
QM	2	AEIYRDVLA	91	3.689
QM	3	DEAAFAAAA	358	3.584

QM	4	KELGPDGAA	400	2.485
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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	DPKAAAKEL	394	0.970
ANNs+QM	2	TAPLIEAAL	424	0.950
ANNs+QM	3	EAALKDALI	429	0.950
ANNs+QM	4	DAWELLKFF	378	0.940

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AALAALTSV	412	13.250
QM	2	IPEGLLNLYL	276	8.200
QM	3	DPKAAAKEL	394	7.900
QM	4	GPDGAAVLD	403	6.770

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AALAALTSV	412	13.250
QM	2	DAWELLKFF	378	10.830
QM	3	IPEGLLNLYL	276	8.200
QM	4	DPKAAAKEL	394	7.900

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	LGPDGAAVL	402	3.807
QM	2	DLFGLDEM V	296	3.497
QM	3	DAWELLKFF	378	3.081
QM	4	RQLALHQAL	224	2.357

ALLELE: HLA-B*5301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPEGLLNYL	276	1.000
ANNs+QM	2	DPKAAAKEL	394	1.000
ANNs+QM	3	GPDGAAVLD	403	0.880
ANNs+QM	4	TPRQLALHQ	222	0.680

ALLELE: HLA-B*5401

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPKAAAKEL	394	1.000
ANNs+QM	2	GPDGAAVLD	403	0.990
ANNs+QM	3	IPEGLLNYL	276	0.950
ANNs+QM	4	TPRQLALHQ	222	0.870

ALLELE: HLA-B*51

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ERIPKFAHL	239	0.990
ANNs+QM	2	DPKAAAKEL	394	0.980
ANNs+QM	3	IPEGLLNYL	276	0.920

ANNs+QM	4	TPRQLALHQ	222	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	DAWELLKFF	378	3.073
QM	2	VSPPLFESL	460	1.974
QM	3	FSTPEEVEA	111	1.386
QM	4	KAFSPIRVA	446	1.281

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IEAALKDAL	428	5.864
QM	2	TDAQRAAYL	140	3.689
QM	3	FDQKKADAL	319	2.996
QM	4	AEIYRDVLA	91	2.773

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DEMVAAFDV	301	4.382
QM	2	AEIYRDVLA	91	3.689
QM	3	DEAAFAAAA	358	3.689
QM	4	KELGPDGAA	400	3.689

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DLVRGPVTF	169	4.660
QM	2	RQLALHQAL	224	2.079
QM	3	HIALDEAAF	354	1.609
QM	4	ELGPDGAAV	401	1.569

ALLELE: HLA-B7

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IYRDVLARL	93	1.000
ANNs+QM	2	IPEGLLNYL	276	1.000
ANNs+QM	3	DPKAAAKEL	394	1.000
ANNs+QM	4	LTRASGDPL	187	0.960

ALLELE: HLA-B*0702

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPEGLLNYL	276	1.000
ANNs+QM	2	DPKAAAKEL	394	1.000
ANNs+QM	3	TPRQLALHQ	222	0.980
ANNs+QM	4	GPDGAAVLD	403	0.980

ALLELE: HLA-B8

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FDQKKADAL	319	1.000
ANNs+QM	2	VIDPKAAAK	392	1.000
ANNs+QM	3	YRDVLARLL	94	0.720

ANNs+QM	4	EAALKDALI	429	0.720
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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	ERIPKFAHL	239	6.908
QM	2	VSPPLFESL	460	3.912
QM	3	RQLALHQAL	224	3.178
QM	4	SYLALLDAL	57	2.996

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPKAAAKEL	394	10.640
QM	2	QRDSEESYL	51	5.840
QM	3	IYRDVLARL	93	5.430
QM	4	KFAHLPTVL	243	5.430

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPEGLLNLYL	276	2.771
QM	2	SYLALLDAL	57	2.485
QM	3	LKDALIEGL	432	2.485
QM	4	YRDVLARLL	94	2.078

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	IYRDVLARL	93	2.311
QM	2	SYLALLDAL	57	2.156
QM	3	IPEGLLNYL	276	1.974
QM	4	DAWELLKFF	378	1.664

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ADALNAEHI	324	1.000
ANNs+QM	2	FDQKKADAL	319	0.980
ANNs+QM	3	GAAVLDAAL	406	0.980
ANNs+QM	4	RAEIYRDVL	90	0.890

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LGPDGAAVL	402	21.300
QM	2	VSPPLFESL	460	19.420
QM	3	IYRDVLARL	93	16.380
QM	4	DVGDFTVRL	336	14.580

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YRDVLARLL	94	1.000
ANNs+QM	2	SVPDFALTR	181	1.000
ANNs+QM	3	VSPPLFESL	460	1.000

ANNs+QM	4	KFAHLPTVL	243	0.990
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YRDVLARLL	94	1.000
ANNs+QM	2	GYDNFDRHL	131	1.000
ANNs+QM	3	KFAHLPTVL	243	1.000
ANNs+QM	4	ERIPKFAHL	239	0.990

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DEMVAAFDV	301	4.605
QM	2	ADALNAEHI	324	4.605
QM	3	IEAALKDAL	428	4.382
QM	4	DEAAFAAAA	358	2.996

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KFAHLPTVL	243	1.000
ANNs+QM	2	DPKAAAKEL	394	1.000
ANNs+QM	3	DLVRGPVTF	169	0.870
ANNs+QM	4	ERIPKFAHL	239	0.760

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VSPPLFESL	460	15.510
QM	2	LLPSTPRQL	218	14.910
QM	3	ERIPKFAHL	239	14.110
QM	4	LVQTRIVVL	368	13.980

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HLDTHGHHI	347	16.000
QM	2	ERIPKFAHL	239	11.070
QM	3	DLVRGPVTF	169	7.620
QM	4	YLALLGWSI	283	7.290

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPEGLLNLYL	276	9.490
QM	2	AKELGPDGA	399	8.270
QM	3	QYVIDPKAA	390	7.670
QM	4	QRDSEESYL	51	7.380

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HLDTHGHHI	347	12.380
QM	2	IPEGLLNLYL	276	12.250
QM	3	FDQKKADAL	319	11.030

QM	4	ERIPKFAHL	239	9.970
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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	DTHGHHIAL	349	9.150
QM	2	VSPPLFESL	460	8.500
QM	3	SVPDFALTR	181	7.740
QM	4	DVGDFTVRL	336	5.990

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FDQKKADAL	319	17.100
QM	2	AAFAAAAEL	360	16.270
QM	3	ALDEAAFAA	356	15.870
QM	4	RAEIYRDVL	90	15.760

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ERIPKFAHL	239	9.360
QM	2	QRDSEESYL	51	8.420
QM	3	HIALDEAAF	354	6.950
QM	4	ARFDQKKAD	317	5.730

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	SYLALLDAL	57	14.810
QM	2	QRDSEESYL	51	12.440
QM	3	DTHGHHIAL	349	11.680
QM	4	AAFAAAAEL	360	11.220

ALLELE: HLA-B*2902

Threshold for 4 % with score: 7.750

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IEAALKDAL	428	8.700
QM	2	KELGPDGAA	400	8.600
QM	3	EESYLALLD	55	8.300
QM	4	DVGDFTVRL	336	5.400

ALLELE: HLA-A*3301

Threshold for 4 % with score: 3.840

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VIDPKAAAK	392	5.780
QM	2	SVPDFALTR	181	1.780
QM	3	HLDTHGHHI	347	1.370
QM	4	GYDNFDRHL	131	1.000

ALLELE: HLA-B44

Threshold for 4 % with score: 4.900

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAFAAAAEL	360	8.300
QM	2	DEAAFAAAA	358	6.270
QM	3	AEIYRDVLA	91	6.160

QM	4	EESYLALLD	55	5.410
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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	SVPDFALTR	181	1.000
ANNs+QM	2	VIDPKAAAK	392	0.910
ANNs+QM	3	AVLDAALAA	408	0.780
ANNs+QM	4	AAAAELVQT	363	0.640

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RAEIYRDVL	90	0.990
ANNs+QM	2	DLFGLDEMV	296	0.990
ANNs+QM	3	QTRIVVLGD	370	0.990
ANNs+QM	4	EAALKDALI	429	0.980