



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

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Antigen Name	Untitled
Scanned on	Fri Feb 19 23:45:11 2010
Length of input sequence	263 amino acids
Number of nonamers from input sequence	255
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	ATDHPGYAE	193	1.000
ANNs+QM	2	GSDGINIRL	124	0.550
ANNs+QM	3	AVDVYRRGL	105	0.530
ANNs+QM	4	RVDPDELL	215	0.480

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLWPGLLL	48	1.000
ANNs+QM	2	ILGNAVDVL	133	0.630

ANNs+QM	3	FGRDAPVVL	73	0.250
ANNs+QM	4	QHLIAPDSL	142	0.110

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLWPELGLL	48	1.000
ANNs+QM	2	TMALIADRL	176	1.000
ANNs+QM	3	ILGNAVDVL	133	0.990
ANNs+QM	4	AVDVYRRGL	105	0.780

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLWPELGLL	48	1.000
ANNs+QM	2	ILGNAVDVL	133	0.960
ANNs+QM	3	TKYERKAQL	232	0.420
ANNs+QM	4	ATDHPGYAE	193	0.380

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQLGGGAVI	238	0.970
ANNs+QM	2	LQPATMALI	172	0.950
ANNs+QM	3	DHPGYAEHI	195	0.490
ANNs+QM	4	RGLAQLLCA	111	0.310

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LGGGAVIEL	240	0.480
ANNs+QM	2	LQPATMALI	172	0.390
ANNs+QM	3	YRRGLAQLL	109	0.340
ANNs+QM	4	RLWPDELGLL	48	0.210

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ILGNAVDVL	133	12.100
QM	2	QHLIAPDSL	142	9.540
QM	3	TMALIADRL	176	9.230
QM	4	AQLGGGAVI	238	6.920

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GTSTLAMAK	88	0.910
ANNs+QM	2	LAMAKAEPH	92	0.730
ANNs+QM	3	LQPATMALI	172	0.280
ANNs+QM	4	RVDPDTELL	215	0.130

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ATDHPGYAE	193	0.860

ANNs+QM	2	LQPATMALI	172	0.850
ANNs+QM	3	GTSTLAMAK	88	0.780
ANNs+QM	4	HIAAAGDAE	202	0.720

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QHLIAPDSL	142	11.940
QM	2	TMALIADRL	176	9.840
QM	3	VRVDPDEL	214	9.330
QM	4	ILGNAVDVL	133	7.050

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QHLIAPDSL	142	0.810
ANNs+QM	2	LQPATMALI	172	0.550
ANNs+QM	3	RLWPELGLL	48	0.500
ANNs+QM	4	AQLGGGAVI	238	0.180

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GTSTLAMAK	88	0.990
ANNs+QM	2	PGYAEHIAA	197	0.610
ANNs+QM	3	YRRGLAQLL	109	0.560
ANNs+QM	4	LQPATMALI	172	0.480

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLWPELGLL	48	-1.022
QM	2	GTSTLAMAK	88	-1.609
QM	3	LVPSGVLHA	184	-2.526

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RVDPDTELL	215	0.860
ANNs+QM	2	MAKAEPHVD	94	0.640
ANNs+QM	3	LLCAIDKVG	116	0.550
ANNs+QM	4	LAMAKAEPH	92	0.400

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQLGGGAVI	238	0.990
ANNs+QM	2	GTSTLAMAK	88	0.980
ANNs+QM	3	LQPATMALI	172	0.840
ANNs+QM	4	AEHIAAAGD	200	0.590

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSGSGTSTL	84	-0.693
QM	2	AVDVYRRGL	105	-0.693

QM	3	GSDGINIRL	124	-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	GTSTLAMAK	88	3.401
QM	2	LVPSGVLHA	184	1.792
QM	3	RVDPDTELL	215	1.792
QM	4	AVDVYRRGL	105	1.386

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TKYERKAQL	232	6.215
QM	2	TMALIADRL	176	3.219
QM	3	RLWPELGLL	48	2.708
QM	4	ILGNAVDVL	133	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLWPELGLL	48	1.000
ANNs+QM	2	GSDGINIRL	124	0.970
ANNs+QM	3	YRRGLAQLL	109	0.950
ANNs+QM	4	LAMAKAEPH	92	0.930

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TKYERKAQL	232	1.000
ANNs+QM	2	TMALIADRL	176	0.970
ANNs+QM	3	YRRGLAQLL	109	0.940
ANNs+QM	4	QHLIAPDSL	142	0.870

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YRRGLAQLL	109	4.094
QM	2	RRGLAQLLC	110	4.094
QM	3	VRVDPDEL	214	4.094
QM	4	RLWPELGLL	48	2.603

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VRVDPDEL	214	1.000
ANNs+QM	2	RRGLAQLLC	110	0.800
ANNs+QM	3	YRRGLAQLL	109	0.600
ANNs+QM	4	AQLGGGAVI	238	0.250

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRGLAQLLC	110	0.990
ANNs+QM	2	YRRGLAQLL	109	0.960
ANNs+QM	3	VRVDPDEL	214	0.570

ANNs+QM	4	FGRDAPVVL	73	0.210
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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	QPATMALIA	173	0.950
ANNs+QM	2	LQPATMALI	172	0.560
ANNs+QM	3	TMALIADRL	176	0.530
ANNs+QM	4	TKYERKAQL	232	0.530

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLWPELGLL	48	1.609
QM	2	YRRGLAQLL	109	1.609
QM	3	LQPATMALI	172	1.609
QM	4	RVDPDTELL	215	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QHLIAPDSL	142	3.664
QM	2	DHPGYAEHI	195	2.890
QM	3	TWERLWPEL	45	2.054
QM	4	GSDGINIRL	124	2.054

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	QHLIAPDSL	142	5.193
QM	2	DHPGYAEHI	195	3.401
QM	3	VRVDPDEL	214	3.401
QM	4	TWERLWPEL	45	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TKYERKAQL	232	2.996
QM	2	TWERLWPEL	45	0.875
QM	3	AVDVYRRGL	105	0.875
QM	4	GSDGINIRL	124	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSGSGTSTL	84	0.000
QM	2	RGLAQLLCA	111	0.000
QM	3	QPATMALIA	173	0.000

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEHIAAAGD	200	0.993
QM	2	AEPRLVRVD	209	0.875
QM	3	LGGGAVIEL	240	-0.393

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LAMAKAEPH	92	0.950
ANNs+QM	2	QPATMALIA	173	0.900
ANNs+QM	3	FGRDAPVVL	73	0.740
ANNs+QM	4	DHPGYAEHI	195	0.540

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DHPGYAEHI	195	8.770
QM	2	QPATMALIA	173	6.680
QM	3	LAMAKAEPH	92	6.200
QM	4	LQPATMALI	172	4.640

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DHPGYAEHI	195	8.770
QM	2	QPATMALIA	173	6.680
QM	3	LAMAKAEPH	92	6.200
QM	4	LQPATMALI	172	4.640

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score

QM	1	AQLGGGAVI	238	5.704
QM	2	LQPATMALI	172	3.989
QM	3	QPATMALIA	173	2.015
QM	4	HPGYAEHIA	196	2.015

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FGRDAPVVL	73	1.000
ANNs+QM	2	QPATMALIA	173	1.000
ANNs+QM	3	HPGYAEHIA	196	0.340
ANNs+QM	4	TKYERKAQL	232	0.340

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPATMALIA	173	1.000
ANNs+QM	2	FGRDAPVVL	73	0.860
ANNs+QM	3	HPGYAEHIA	196	0.780
ANNs+QM	4	LAMAKAEPH	92	0.290

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HPGYAEHIA	196	1.000
ANNs+QM	2	QPATMALIA	173	0.980
ANNs+QM	3	FGRDAPVVL	73	0.860
ANNs+QM	4	VRVDPDEL	214	0.670

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSDGINIRL	124	1.289
QM	2	GSGSGTSTL	84	0.788
QM	3	RGLAQLLCA	111	-0.926

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSDGINIRL	124	2.270
QM	2	FGRDAPVVL	73	2.079
QM	3	LGGGAVIEL	240	2.079
QM	4	GSGSGTSTL	84	1.386

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RGLAQLLCA	111	0.095
QM	2	QPATMALIA	173	0.000
QM	3	HPGYAEHIA	196	-0.693

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQLGGGAVI	238	2.357
QM	2	ILGNAVDVL	133	1.744

QM	3	LQPATMALI	172	1.386
QM	4	RLWPPELGLL	48	0.875

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVDVYRRGL	105	1.000
ANNs+QM	2	YRRGLAQLL	109	0.860
ANNs+QM	3	QPATMALIA	173	0.850
ANNs+QM	4	LQPATMALI	172	0.720

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPATMALIA	173	1.000
ANNs+QM	2	LAMAKAEPH	92	0.640
ANNs+QM	3	HPGYAEHIA	196	0.640
ANNs+QM	4	DTRAWFGRD	68	0.200

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPATMALIA	173	0.700
ANNs+QM	2	TMALIADRL	176	0.640
ANNs+QM	3	LQPATMALI	172	0.630
ANNs+QM	4	QHLIAPDSL	142	0.590

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QHLIAPDSL	142	2.996
QM	2	VRVDPDEL	214	2.996
QM	3	TKYERKAQL	232	2.708
QM	4	RLWPELGLL	48	2.303

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ILGNAVDVL	133	6.430
QM	2	QHLIAPDSL	142	4.310
QM	3	FGRDAPVVL	73	4.100
QM	4	RLWPELGLL	48	2.430

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YRRGLAQLL	109	2.078
QM	2	TWERLWPEL	45	1.792
QM	3	GSDGINIRL	124	1.792
QM	4	TMALIADRL	176	1.792

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LGGGAVIEL	240	1.058

QM	2	YRRGLAQLL	109	0.971
QM	3	ILGNAVDVL	133	0.875
QM	4	QPATMALIA	173	0.875

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILGNAVDVL	133	0.920
ANNs+QM	2	RLWPGLGLL	48	0.890
ANNs+QM	3	TWERLWPEL	45	0.490
ANNs+QM	4	HIAAAGDAE	202	0.460

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FGRDAPVVL	73	18.600
QM	2	DHPGYAEHI	195	13.370
QM	3	LQPATMALI	172	12.040
QM	4	GSGSGTSTL	84	11.580

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YRRGLAQLL	109	0.940
ANNs+QM	2	TMALIADRL	176	0.820
ANNs+QM	3	AVDVYRRGL	105	0.700
ANNs+QM	4	AQLGGGAVI	238	0.690

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVDVYRRGL	105	0.980
ANNs+QM	2	YRRGLAQLL	109	0.930
ANNs+QM	3	TKYERKAQL	232	0.890
ANNs+QM	4	DHPGYAEHI	195	0.800

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DHPGYAEHI	195	2.303
QM	2	AQLGGGAVI	238	2.303
QM	3	LQPATMALI	172	1.609
QM	4	AEPRILVRVD	209	0.693

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TKYERKAQL	232	0.660
ANNs+QM	2	TMALIADRL	176	0.590
ANNs+QM	3	QPATMALIA	173	0.400
ANNs+QM	4	GSGSGTSTL	84	0.340

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ILGNAVDVL	133	12.180

QM	2	TKYERKAQL	232	12.110
QM	3	LGGGAVIEL	240	9.780
QM	4	RLWPGLL	48	9.710

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TMALIADRL	176	9.970
QM	2	RLWPGLL	48	6.960
QM	3	VRVDPDEL	214	5.800
QM	4	DHPGYAEHI	195	5.000

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRVDPDEL	214	6.000
QM	2	HPGYAEHIA	196	4.330
QM	3	TWERLWPEL	45	3.730
QM	4	PGYAEHIAA	197	2.680

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVDVYRRGL	105	10.060
QM	2	RVDPDEL	215	8.330
QM	3	TKYERKAQL	232	7.730
QM	4	GSDGINIRL	124	6.430

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RVDPDTELL	215	6.820
QM	2	GSDGINIRL	124	4.570
QM	3	TWERLWPEL	45	1.990
QM	4	ATDHPGYAE	193	1.760

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ILGNAVDVL	133	18.710
QM	2	RLWPELGLL	48	17.500
QM	3	MAKAEPHVD	94	13.070
QM	4	AVDVYRRGL	105	12.740

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRVDPDTEL	214	10.430
QM	2	RRGLAQLLC	110	4.260
QM	3	YRRGLAQLL	109	4.230
QM	4	RVDPDTELL	215	2.830

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRGLAQLLC	110	13.910

QM	2	VRVDPDEL	214	12.900
QM	3	YRRGLAQLL	109	11.100
QM	4	LGGGAVIEL	240	9.680

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LGGGAVIEL	240	8.050
QM	2	ILGNAVDVL	133	7.650
QM	3	AEPRLVRVD	209	7.370
QM	4	AEHIAAAGD	200	6.640

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GTSTLAMAK	88	4.580
QM	2	LAMAKAEPH	92	3.370
QM	3	RLWPELGLL	48	0.530
QM	4	ATDHPGYAE	193	0.200

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AEHIAAAGD	200	7.600
QM	2	LGGGAVIEL	240	6.940
QM	3	AEPRLVRVD	209	3.600
QM	4	AQLGGGAVI	238	3.100

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GTSTLAMAK	88	1.000
ANNs+QM	2	ATDHPGYAE	193	0.840
ANNs+QM	3	HIAAAGDAE	202	0.710
ANNs+QM	4	AQLGGGAVI	238	0.610

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILGNAVDVL	133	0.990
ANNs+QM	2	AVDVYRRGL	105	0.980
ANNs+QM	3	FGRDAPVVL	73	0.880
ANNs+QM	4	QHLIAPDSL	142	0.880