



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

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Antigen Name	Untitled
Scanned on	Thu Feb 4 16:25:10 2010
Length of input sequence	102 amino acids
Number of nonamers from input sequence	94
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	LTARLAAAH	20	0.690
ANNs+QM	2	SAAVEALTA	14	0.650
ANNs+QM	3	AGDAAAAAT	88	0.600
ANNs+QM	4	VPEGLAAS	6	0.550

ALLELE: HLA-A2

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAAASAAV	9	0.980
ANNs+QM	2	TLRVVPEGL	2	0.940

ANNs+QM	3	AVEALTARL	16	0.100
ANNs+QM	4	AASAAVEAL	12	0.080

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLAAAHASA	23	1.000
ANNs+QM	2	VTAEGVEEL	64	1.000
ANNs+QM	3	GLAAASAAV	9	0.980
ANNs+QM	4	TLRVVPEGL	2	0.970

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAAASAAV	9	1.000
ANNs+QM	2	RLAAAHASA	23	0.980
ANNs+QM	3	YLAGDAAAA	86	0.930
ANNs+QM	4	TLRVVPEGL	2	0.840

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAAASAAV	9	0.960
ANNs+QM	2	AHASAAPVI	27	0.800
ANNs+QM	3	VVPEGLAAA	5	0.480
ANNs+QM	4	AAASAAVEA	11	0.400

ALLELE: HLA-A*0206

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAAASAAV	9	0.950
ANNs+QM	2	VITAVVPPA	34	0.430
ANNs+QM	3	TLRVVPEGL	2	0.360
ANNs+QM	4	VTAEGVEEL	64	0.320

ALLELE: HLA-A*0205

Threshold for 4 % with score: 5.950

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVEALTARL	16	11.720
QM	2	AASAAVEAL	12	9.710
QM	3	AHASAAPVI	27	8.570
QM	4	LTARLAAAH	20	7.560

ALLELE: HLA-A*1101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VVTAEGVEE	63	0.500
ANNs+QM	2	AVVTAEGVE	62	0.460
ANNs+QM	3	VTAEGVEEL	64	0.340
ANNs+QM	4	GFSAQGVEH	53	0.320

ALLELE: HLA-A11

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAAASAAV	9	0.860

ANNs+QM	2	AGDAAAAAT	88	0.860
ANNs+QM	3	ARLAAAHAS	22	0.750
ANNs+QM	4	ASAAVEALT	13	0.730

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AHASAAPVI	27	11.940
QM	2	PPAADPVSL	40	9.600
QM	3	APVITAVVP	32	8.120
QM	4	VGESGASYL	79	6.000

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SYLAGDAAA	85	0.850
ANNs+QM	2	TLRVVPEGL	2	0.260
ANNs+QM	3	GFSAQGVEH	53	0.210
ANNs+QM	4	SLQTAAGFS	47	0.180

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LTARLAAAH	20	1.000
ANNs+QM	2	RLAAAHASA	23	0.970
ANNs+QM	3	YLAGDAAAA	86	0.940
ANNs+QM	4	ARLAAAHAS	22	0.930

ALLELE: HLA-A*3101

Threshold for 4 % with score: -1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RVVPEGLAA	4	-1.427
QM	2	RLAAAHASA	23	-2.813
QM	3	VVPEGLAAA	5	-3.219

ALLELE: HLA-A31

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AEGVEELGR	66	0.960
ANNs+QM	2	ASAAVEALT	13	0.900
ANNs+QM	3	GLAAASAAV	9	0.660
ANNs+QM	4	LRVVPEGLA	3	0.560

ALLELE: HLA-A*0301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AHASAAPVI	27	0.930
ANNs+QM	2	APVITAVVP	32	0.930
ANNs+QM	3	ARLAAAHAS	22	0.880
ANNs+QM	4	ASYLAGDAA	84	0.850

ALLELE: HLA-A*3302

Threshold for 4 % with score: -0.105

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VVPEGLAAA	5	-0.693
QM	2	ASAAVEALT	13	-0.693

QM	3	AVEALTARL	16	-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	RVVPEGLAA	4	2.485
QM	2	AEGVEELGR	66	1.504
QM	3	VVPEGLAAA	5	1.386
QM	4	AVEALTARL	16	1.386

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLRVVPEGL	2	2.708
QM	2	GLAAASAAV	9	2.197
QM	3	AASAAVEAL	12	1.609
QM	4	AVEALTARL	16	1.609

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLRVVPEGL	2	1.000
ANNs+QM	2	GLAAASAAV	9	1.000
ANNs+QM	3	YLAGDAAAA	86	0.980
ANNs+QM	4	RLAAAHASA	23	0.950

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARLAAAHAS	22	1.000
ANNs+QM	2	SAAVEALTA	14	0.830
ANNs+QM	3	VEALTARLA	17	0.820
ANNs+QM	4	AAASAAVEA	11	0.730

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRVVPEGLA	3	2.996
QM	2	ARLAAAHAS	22	2.303
QM	3	TLRVVPEGL	2	-0.105

ALLELE: HLA-B*27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARLAAAHAS	22	0.600
ANNs+QM	2	VTAEGVEEL	64	0.560
ANNs+QM	3	LRVVPEGLA	3	0.150
ANNs+QM	4	GFSAQGVEH	53	0.050

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARLAAAHAS	22	0.940
ANNs+QM	2	LRVVPEGLA	3	0.630
ANNs+QM	3	RLAAAHASA	23	0.250

ANNs+QM	4	AAASAAVEA	11	0.200
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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	PPAADPVSL	40	1.000
ANNs+QM	2	APVITAVVP	32	0.990
ANNs+QM	3	VPEGLAAAS	6	0.640
ANNs+QM	4	LTARLAAAH	20	0.160

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEALTARLA	17	1.609
QM	2	GESGASYLA	80	1.609
QM	3	TLRVVPEGL	2	0.405

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AHASAAPVI	27	2.460
QM	2	AVEALTARL	16	1.361
QM	3	VGESGASYL	79	1.281
QM	4	VTAEGVEEL	64	0.693

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AHASAAPVI	27	3.401
QM	2	AVEALTARL	16	2.197
QM	3	VTAEGVEEL	64	2.197
QM	4	VGESGASYL	79	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVEALTARL	16	0.875
QM	2	AASAAVEAL	12	0.693
QM	3	VTAEGVEEL	64	0.693
QM	4	VGESGASYL	79	0.693

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEALTARLA	17	3.689
QM	2	GESGASYLA	80	3.689
QM	3	PEGLAAASA	7	0.693
QM	4	AAASA AVEA	11	0.693

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEALTARLA	17	2.485
QM	2	GESGASYLA	80	2.197
QM	3	PEGLAAASA	7	-0.105

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APVITAVVP	32	0.900
ANNs+QM	2	PPAADPVSL	40	0.730
ANNs+QM	3	VPEGLAAAS	6	0.600
ANNs+QM	4	SAAVEALTA	14	0.410

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APVITAVVP	32	10.140
QM	2	AGVGVGESG	75	8.770
QM	3	AASA AVEAL	12	7.250
QM	4	PPAADPVSL	40	7.170

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APVITAVVP	32	10.140
QM	2	AGVGVGESG	75	8.770
QM	3	AASA AVEAL	12	7.250
QM	4	PPAADPVSL	40	7.170

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

QM	1	QGVEHAVVT	57	1.792
QM	2	AHASAAPVI	27	1.099
QM	3	VGESGASYL	79	0.811
QM	4	GLAAASAAV	9	0.683

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPAADPVSL	40	1.000
ANNs+QM	2	APVITAVVP	32	0.980
ANNs+QM	3	VPEGLAAAS	6	0.800
ANNs+QM	4	AHASAAPVI	27	0.580

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APVITAVVP	32	0.980
ANNs+QM	2	PPAADPVSL	40	0.960
ANNs+QM	3	VPEGLAAAS	6	0.900
ANNs+QM	4	LTARLAAAH	20	0.630

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPAADPVSL	40	0.940
ANNs+QM	2	APVITAVVP	32	0.570
ANNs+QM	3	VPEGLAAAS	6	0.500
ANNs+QM	4	VGESGASYL	79	0.390

ALLELE: HLA-B*5801

Threshold for 4 % with score: -0.223

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTAEGVEEL	64	1.569
QM	2	ASAAVEALT	13	1.099
QM	3	ASYLAGDAA	84	0.693
QM	4	SAAVEALTA	14	0.191

ALLELE: HLA-B60

Threshold for 4 % with score: 1.386

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GESGASYLA	80	2.773
QM	2	AASAAVEAL	12	2.079
QM	3	VEALTARLA	17	2.079
QM	4	VTAEGVEEL	64	2.079

ALLELE: HLA-B61

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEALTARLA	17	3.689
QM	2	GESGASYLA	80	3.497
QM	3	PEGLAAASA	7	0.693

ALLELE: HLA-B62

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLRVVPEGL	2	2.485

QM	2	YLAGDAAAA	86	0.875
QM	3	GLAAASAAV	9	0.693
QM	4	RLAAAHASA	23	0.693

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPAADPVSL	40	1.000
ANNs+QM	2	APVITAVVP	32	0.880
ANNs+QM	3	TLRVVPEGL	2	0.650
ANNs+QM	4	ASAAVEALT	13	0.560

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPAADPVSL	40	1.000
ANNs+QM	2	VPEGLAAAS	6	0.920
ANNs+QM	3	APVITAVVP	32	0.850
ANNs+QM	4	LRVVPEGLA	3	0.660

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VEALTARLA	17	0.700
ANNs+QM	2	SLQTAAGFS	47	0.680
ANNs+QM	3	SAAVEALTA	14	0.640
ANNs+QM	4	ASAAVEALT	13	0.630

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RVVPEGLAA	4	1.609
QM	2	AASAAVEAL	12	1.386
QM	3	VTAEGVEEL	64	1.099
QM	4	VGESGASYL	79	0.875

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTAEGVEEL	64	9.760
QM	2	AASAAVEAL	12	7.910
QM	3	PPAADPVSL	40	5.370
QM	4	AVEALTARL	16	0.910

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVEALTARL	16	1.792
QM	2	AASAAVEAL	12	1.482
QM	3	VTAEGVEEL	64	1.386
QM	4	TLRVVPEGL	2	0.693

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTAEGVEEL	64	1.058

QM	2	AASAAVEAL	12	0.460
QM	3	VPEGLAAAS	6	0.365
QM	4	TLRVVPEGL	2	0.182

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LAGDAAAAA	87	0.870
ANNs+QM	2	VTAEGVEEL	64	0.680
ANNs+QM	3	LTARLAAAH	20	0.580
ANNs+QM	4	SAAVEALTA	14	0.500

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGESGASYL	79	15.130
QM	2	AGDAAAAAT	88	14.530
QM	3	AVEALTARL	16	11.890
QM	4	QGVEHAVVT	57	10.780

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AGDAAAAAT	88	0.880
ANNs+QM	2	ASAAVEALT	13	0.870
ANNs+QM	3	VPEGLAAAS	6	0.860
ANNs+QM	4	AASAAVEAL	12	0.840

ALLELE: H2-Kd

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLRVVPEGL	2	0.980
ANNs+QM	2	VTAEGVEEL	64	0.970
ANNs+QM	3	LRVVPEGLA	3	0.700
ANNs+QM	4	VGESGASYL	79	0.700

ALLELE: H2-Kk

Threshold for 4 % with score: 1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEALTARLA	17	2.708
QM	2	GESGASYLA	80	2.303
QM	3	AHASAAPVI	27	1.609
QM	4	AEGVEELGR	66	0.693

ALLELE: H2-Ld

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPAADPVSL	40	1.000
ANNs+QM	2	VGESGASYL	79	0.540
ANNs+QM	3	AASAAVEAL	12	0.390
ANNs+QM	4	VTAEGVEEL	64	0.250

ALLELE: HLA-G

Threshold for 4 % with score: 9.260

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTAEGVEEL	64	12.780

QM	2	RLAAAHASA	23	10.920
QM	3	AVEALTARL	16	10.110
QM	4	PPAADPVSL	40	9.310

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLRVVPEGL	2	15.510
QM	2	ARLAAAHAS	22	5.410
QM	3	VGESGASYL	79	1.800
QM	4	VTAEGVEEL	64	1.460

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PPAADPVSL	40	5.340
QM	2	SYLAGDAAA	85	4.140
QM	3	LRVVPEGLA	3	3.660
QM	4	RVVPEGLAA	4	3.340

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PPAADPVSL	40	13.650
QM	2	TLRVVPEGL	2	8.240
QM	3	AASAAVEAL	12	6.810
QM	4	APVITAVVP	32	4.770

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VVPEGLAAA	5	3.880
QM	2	AVEALTARL	16	3.450
QM	3	VTAEGVEEL	64	1.850
QM	4	AASAAVEAL	12	1.540

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLAAASAAV	9	17.670
QM	2	RLAAAHASA	23	17.400
QM	3	TLRVVPEGL	2	15.310
QM	4	AASAAVEAL	12	15.300

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTAEGVEEL	64	3.730
QM	2	LRVVPEGLA	3	2.970
QM	3	ARLAAAHAS	22	1.070

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARLAAAHAS	22	11.240
QM	2	GLAAASAAV	9	10.900

QM	3	AVEALTARL	16	9.340
QM	4	SGASYLAGD	82	7.260

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PEGLAAASA	7	11.260
QM	2	GESGASYLA	80	11.010
QM	3	AASAAVEAL	12	8.930
QM	4	AGVGVGESG	75	8.410

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VITAVVPPA	34	4.040
QM	2	LTARLAAAH	20	2.620
QM	3	LAAASAAVE	10	1.780
QM	4	AVEALTARL	16	0.790

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PEGLAAASA	7	10.100
QM	2	AEGVEELGR	66	8.300
QM	3	AGDAAAAT	88	7.490
QM	4	GESGASYLA	80	7.250

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAAASAAV	9	0.970
ANNs+QM	2	AHASAAPVI	27	0.940
ANNs+QM	3	ARLAAAHAS	22	0.890
ANNs+QM	4	AGDAAAAAT	88	0.750

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SLQTAAGFS	47	1.000
ANNs+QM	2	AASAAVEAL	12	0.990
ANNs+QM	3	VTAEGVEEL	64	0.980
ANNs+QM	4	AVVTAEGVE	62	0.970