



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

[Home](#)
[ComPred](#)
[ANNPred](#)
[References](#)
[Help](#)
[Matrices](#)
[Team](#)
[Contact](#)

Antigen Name	Untitled
Scanned on	Wed Jan 27 11:26:25 2010
Length of input sequence	144 amino acids
Number of nonamers from input sequence	136
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	GSFVRTVSL	96	0.370
ANNs+QM	2	TFDTRLMRL	34	0.040
ANNs+QM	3	DGQLTIKAE	72	0.030
ANNs+QM	4	ELFAAFPSF	20	0.020

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ELFAAFPSF	20	0.010
ANNs+QM	2	LRPTFDTRL	31	0.010
ANNs+QM	3	MATTLPVQR	1	0.000

ALLELE: HLA-A*0201

Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMRL	34	0.440
ANNS+QM	2	DKGILTVSV	118	0.140
ANNS+QM	3	GSFVRTVSL	96	0.100
ANNS+QM	4	ELFAAFPSPF	20	0.030

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMRL	34	0.390
ANNS+QM	2	DKGILTVSV	118	0.190
ANNS+QM	3	DGQLTIKAE	72	0.020
ANNS+QM	4	VRAELPGVD	53	0.010

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSPF	20	0.490
ANNS+QM	2	VRAELPGVD	53	0.320
ANNS+QM	3	DKGILTVSV	118	0.150
ANNS+QM	4	LRPTFDTRL	31	0.090

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.350
ANNS+QM	2	VRAELPGVD	53	0.030
ANNS+QM	3	TFDTRLMRL	34	0.010

ALLELE: HLA-A*0205				
---------------------------	--	--	--	--

Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	6.880
QM	2	TFDTRLMRL	34	3.300
QM	3	DKGILTVSV	118	2.340

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.100
ANNS+QM	2	GSFVRTVSL	96	0.090
ANNS+QM	3	ELFAAFPSF	20	0.080
ANNS+QM	4	VRTVSLPVG	99	0.020

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	GSFVRTVSL	96	0.050
ANNS+QM	2	ELFAAFPSF	20	0.010
ANNS+QM	3	LRPTFDTRL	31	0.010
ANNS+QM	4	TFDTRLMRL	34	0.010

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	5.210
QM	2	GSFVRTVSL	96	5.060
QM	3	DKGILTVSV	118	3.010
QM	4	VRAELPGVD	53	2.720

ALLELE: HLA-A*2402				
---------------------------	--	--	--	--

Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMRL	34	1.000
ANNS+QM	2	LRPTFDTRL	31	0.580
ANNS+QM	3	ELFAAFPSF	20	0.250
ANNS+QM	4	GSFVRTVSL	96	0.030

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSF	20	0.330
ANNS+QM	2	VRAELPGVD	53	0.070
ANNS+QM	3	GSFVRTVSL	96	0.050
ANNS+QM	4	TFDTRLMRL	34	0.020

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	-3.324
QM	2	TFDTRLMRL	34	-3.730
QM	3	GSFVRTVSL	96	-7.419

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	VRTVSLPVG	99	0.400
ANNS+QM	2	VRAELPGVD	53	0.380
ANNS+QM	3	TFDTRLMRL	34	0.340
ANNS+QM	4	LRPTFDTRL	31	0.290

ALLELE: HLA-A*0301				
---------------------------	--	--	--	--

Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSF	20	0.210
ANNS+QM	2	DGQLTIKAE	72	0.110
ANNS+QM	3	VRAELPGVD	53	0.010
ANNS+QM	4	DKGILTVSV	118	0.010

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	-0.693
QM	2	TFDTRLMRL	34	-2.303
QM	3	ELFAAFPSF	20	-2.408

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	-0.511
QM	2	ELFAAFPSF	20	-2.813
QM	3	DKGILTVSV	118	-2.813

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DKGILTVSV	118	5.704
QM	2	ELFAAFPSF	20	2.708
QM	3	LRPTFDTRL	31	2.303
QM	4	GSFVRTVSL	96	1.609

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSF	20	0.940
ANNS+QM	2	TFDTRLMRL	34	0.840
ANNS+QM	3	GSFVRTVSL	96	0.660
ANNS+QM	4	LRPTFDTRL	31	0.250

ALLELE: HLA-B14				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMRL	34	1.000
ANNS+QM	2	GSFVRTVSL	96	1.000
ANNS+QM	3	DGQLTIKAE	72	0.780
ANNS+QM	4	VRAELPGVD	53	0.420

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	4.094
QM	2	ELFAAFPSF	20	1.504
QM	3	VRAELPGVD	53	0.693
QM	4	VRTVSLPVG	99	0.693

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	1.000
ANNS+QM	2	VRAELPGVD	53	0.490
ANNS+QM	3	GSFVRTVSL	96	0.100
ANNS+QM	4	DKGILTVSV	118	0.080

ALLELE: HLA-B*2705				
---------------------------	--	--	--	--

Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.810
ANNS+QM	2	VRAELPGVD	53	0.730
ANNS+QM	3	VRTVSLPVG	99	0.670
ANNS+QM	4	GSFVRTVSL	96	0.240

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMRL	34	0.650
ANNS+QM	2	LRPTFDTRL	31	0.290
ANNS+QM	3	ELFAAFPSF	20	0.130
ANNS+QM	4	GSFVRTVSL	96	0.050

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	0.000
QM	2	TFDTRLMRL	34	0.000
QM	3	GSFVRTVSL	96	0.000

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TFDTRLMRL	34	1.792
QM	2	ELFAAFPSF	20	0.262
QM	3	GSFVRTVSL	96	0.000

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TFDTRLMRL	34	2.603
QM	2	LRPTFDTRL	31	2.015
QM	3	GSFVRTVSL	96	1.792

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	0.875
QM	2	TFDTRLMRL	34	0.693
QM	3	GSFVRTVSL	96	0.693
QM	4	DKGILTVSV	118	0.182

ALLELE: HLA-B40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	1.386
QM	2	LRPTFDTRL	31	-2.996
QM	3	ELFAAFPSF	20	-3.219

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	-1.897
QM	2	GSFVRTVSL	96	-1.897
QM	3	DKGILTVSV	118	-2.696

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DKGILTVSV	118	0.770

ANNS+QM	2	DGQLTIKAE	72	0.430
ANNS+QM	3	TFDTRLMRL	34	0.170
ANNS+QM	4	LRPTFDTRL	31	0.080

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGQLTIKAE	72	9.270
QM	2	DKGILTVSV	118	5.950
QM	3	GSFVRTVSL	96	-1.120

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGQLTIKAE	72	9.270
QM	2	DKGILTVSV	118	5.950
QM	3	ELFAAFPSF	20	1.290

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	1.504
QM	2	GSFVRTVSL	96	0.278
QM	3	DKGILTVSV	118	-0.639

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSF	20	0.120
ANNS+QM	2	VRAELPGVD	53	0.110
ANNS+QM	3	TFDTRLMRL	34	0.030

ANNS+QM	4	LRPTFDTRL	31	0.020
----------------	---	-----------	----	-------

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DKGILTVSV	118	0.490
ANNS+QM	2	VRAELPGVD	53	0.400
ANNS+QM	3	LRPTFDTRL	31	0.220
ANNS+QM	4	ELFAAFPSF	20	0.050

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.810
ANNS+QM	2	DKGILTVSV	118	0.720
ANNS+QM	3	TFDTRLMRL	34	0.590
ANNS+QM	4	GSFVRTVSL	96	0.460

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	0.693
QM	2	ELFAAFPSF	20	-1.938
QM	3	TFDTRLMRL	34	-3.444

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	2.079
QM	2	TFDTRLMRL	34	-0.128
QM	3	LRPTFDTRL	31	-0.821

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	-0.416
QM	2	DKGILTVSV	118	-2.303
QM	3	LRPTFDTRL	31	-3.912

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	3.689
QM	2	GSFVRTVSL	96	-2.813
QM	3	DKGILTVSV	118	-3.037

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.780
ANNS+QM	2	TFDTRLMRL	34	0.470
ANNS+QM	3	ELFAAFPSF	20	0.040
ANNS+QM	4	VRAELPGVD	53	0.030

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.350
ANNS+QM	2	VRAELPGVD	53	0.260
ANNS+QM	3	TFDTRLMRL	34	0.110
ANNS+QM	4	ELFAAFPSF	20	0.060

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMLRL	34	0.620
ANNS+QM	2	LRPTFDTRL	31	0.590
ANNS+QM	3	ELFAAFPSF	20	0.550
ANNS+QM	4	VRAELPGVD	53	0.550

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	2.015
QM	2	GSFVRTVSL	96	1.792
QM	3	LRPTFDTRL	31	0.693

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TFDTRLMLRL	34	9.640
QM	2	ELFAAFPSF	20	0.580
QM	3	LRPTFDTRL	31	-1.690

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	1.887
QM	2	TFDTRLMLRL	34	1.386
QM	3	DKGILTVSV	118	1.099
QM	4	GSFVRTVSL	96	0.693

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	1.569
QM	2	ELFAAFPSF	20	0.000
QM	3	DKGILTVSV	118	-0.223

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.050
ANNS+QM	2	TFDTRLMRL	34	0.020
ANNS+QM	3	VRAELPGVD	53	0.010
ANNS+QM	4	DGQLTIKAE	72	0.010

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	14.910
QM	2	ELFAAFPSF	20	9.870
QM	3	DGQLTIKAE	72	9.030
QM	4	LRPTFDTRL	31	8.080

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TFDTRLMRL	34	0.900
ANNS+QM	2	LRPTFDTRL	31	0.720
ANNS+QM	3	VRAELPGVD	53	0.380
ANNS+QM	4	GSFVRTVSL	96	0.110

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LRPTFDTRL	31	0.970
ANNS+QM	2	VRAELPGVD	53	0.470
ANNS+QM	3	TFDTRLMRL	34	0.440
ANNS+QM	4	GSFVRTVSL	96	0.340

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	-1.609
QM	2	TFDTRLMRL	34	-1.609
QM	3	GSFVRTVSL	96	-1.609

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSF	20	0.670
ANNS+QM	2	LRPTFDTRL	31	0.570
ANNS+QM	3	GSFVRTVSL	96	0.140
ANNS+QM	4	TFDTRLMRL	34	0.050

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	15.510
QM	2	ELFAAFPSF	20	6.730
QM	3	VRAELPGVD	53	6.000
QM	4	GSFVRTVSL	96	5.310

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	3.510
QM	2	ELFAAFPSF	20	2.790
QM	3	TFDTRLMRL	34	1.380

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	7.000
QM	2	VRAELPGVD	53	1.000
QM	3	TFDTRLMRL	34	0.290
QM	4	VRTVSLPVG	99	0.160

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	10.760
QM	2	TFDTRLMRL	34	10.470
QM	3	GSFVRTVSL	96	10.060
QM	4	LRPTFDTRL	31	2.230

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TFDTRLMRL	34	2.690
QM	2	LRPTFDTRL	31	1.730
QM	3	DKGILTVSV	118	0.260

ALLELE: HLA-A*0204				
---------------------------	--	--	--	--

Threshold for 4 % with score: 12.070

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	7.990
QM	2	TFDTRLMRL	34	7.540
QM	3	ELFAAFPSF	20	7.190
QM	4	VRTVSLPVG	99	6.630

ALLELE: HLA-B*2703

Threshold for 4 % with score: 5.130

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRTVSLPVG	99	8.390
QM	2	VRAELPGVD	53	7.960
QM	3	LRPTFDTRL	31	6.830
QM	4	ELFAAFPSF	20	1.000

ALLELE: HLA-B*2704

Threshold for 4 % with score: 8.790

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPTFDTRL	31	11.690
QM	2	VRTVSLPVG	99	9.240
QM	3	VRAELPGVD	53	6.770
QM	4	GSFVRTVSL	96	5.660

ALLELE: HLA-B*2902

Threshold for 4 % with score: 7.750

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	4.580
QM	2	LRPTFDTRL	31	3.800
QM	3	VRAELPGVD	53	0.320

ALLELE: HLA-A*3301

Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GSFVRTVSL	96	0.510
QM	2	VRTVSLPVG	99	-1.100
QM	3	ELFAAFPSF	20	-2.480

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ELFAAFPSF	20	2.690
QM	2	DGQLTIKAE	72	2.610
QM	3	GSFVRTVSL	96	-3.820

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELFAAFPSF	20	0.090
ANNS+QM	2	DGQLTIKAE	72	0.090
ANNS+QM	3	GSFVRTVSL	96	0.020
ANNS+QM	4	TFDTRLMRL	34	0.010

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	VRAELPGVD	53	0.890
ANNS+QM	2	DGQLTIKAE	72	0.830
ANNS+QM	3	DKGILTVSV	118	0.700
ANNS+QM	4	GSFVRTVSL	96	0.650