

[IMTECH Home](#) [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 [Thu Jan 21 15:29:34 2010](#)

Length of input sequence [228 amino acids](#)

Number of nonamers from input sequence [220](#)

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	DTDPLPVVF	151	0.840
ANNs+QM	2	QTRDKFLSA	72	0.490

ANNs+QM	3	IAQTRDKFL	70	0.350
ANNs+QM	4	FFFNPGELL	199	0.170

ALLELE: HLA-A2

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMLVTAVVL	6	1.000
ANNs+QM	2	MLVTAVVLL	7	0.820
ANNs+QM	3	TPREAPYEL	85	0.280
ANNs+QM	4	QTRDKFLSA	72	0.250

ALLELE: HLA-A*0201

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMLVTAVVL	6	1.000
ANNs+QM	2	MLVTAVVLL	7	1.000
ANNs+QM	3	TPREAPYEL	85	0.060
ANNs+QM	4	NPGELLPEA	202	0.020

ALLELE: HLA-A*0202

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MLVTAVVLL	7	0.900
ANNs+QM	2	TPREAPYEL	85	0.470
ANNs+QM	3	IAQTRDKFL	70	0.450
ANNs+QM	4	KQTGQQVSI	168	0.350

ALLELE: HLA-A*0203

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KQTGQQVSI	168	0.950
ANNs+QM	2	IAQTRDKFL	70	0.220
ANNs+QM	3	FFFNPGELL	199	0.150
ANNs+QM	4	TPREAPYEL	85	0.120

ALLELE: HLA-A*0206

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KQTGQQVSI	168	1.000
ANNs+QM	2	DTDPLPVVF	151	0.350
ANNs+QM	3	PRGTQAVVL	106	0.080
ANNs+QM	4	IAQTRDKFL	70	0.040

ALLELE: HLA-A*0205

Threshold for 4 % with score: 5.950

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLVTAVVLL	7	7.040
QM	2	PRGTQAVVL	106	5.740
QM	3	NPGELLPEA	202	4.470
QM	4	APKTYCEEL	24	4.250

ALLELE: HLA-A*1101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
-------------------	------	----------	-------------	---------------

ANNs+QM	1	FFNPGELL	199	0.380
ANNs+QM	2	MLVTAVVLL	7	0.140
ANNs+QM	3	TPREAPYEL	85	0.130
ANNs+QM	4	DTDPLPVVF	151	0.100

ALLELE: HLA-A11

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FFNPGELL	199	0.290
ANNs+QM	2	IAQTRDKFL	70	0.170
ANNs+QM	3	APKTYCEEL	24	0.090
ANNs+QM	4	KQTGQQVSI	168	0.090

ALLELE: HLA-A24

Threshold for 4 % with score: 7.670

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	11.780
QM	2	TPREAPYEL	85	8.860
QM	3	DTDPLPVVF	151	7.930

QM 4 PRGTQAVVL 106 6.230

ALLELE: HLA-A*2402

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FFNPGELL	199	1.000
ANNs+QM	2	TPREAPYEL	85	0.970
ANNs+QM	3	IAQTRDKFL	70	0.890
ANNs+QM	4	DTDPLPVVF	151	0.420

ALLELE: HLA-A3

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FFNPGELL	199	0.900
ANNs+QM	2	QTRDKFLSA	72	0.130
ANNs+QM	3	IAQTRDKFL	70	0.080
ANNs+QM	4	NPGELLPEA	202	0.060

ALLELE: HLA-A*3101

Threshold for 4 % with score: -1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLVTAVVLL	7	-2.526
QM	2	KQTGQQVSI	168	-2.813
QM	3	FMLVTAVVL	6	-3.219

ALLELE: HLA-A31

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FFFNPGELL	199	0.770
ANNs+QM	2	IAQTRDKFL	70	0.320
ANNs+QM	3	PRGTQAVVL	106	0.070
ANNs+QM	4	NPGELLPEA	202	0.050

ALLELE: HLA-A*0301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMLVTAVVL	6	0.850
ANNs+QM	2	QTRDKFLSA	72	0.710
ANNs+QM	3	FFFNPGELL	199	0.270
ANNs+QM	4	KQTGQQVSI	168	0.120

ALLELE: HLA-A*3302

Threshold for 4 % with score: -0.105

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	-0.693
QM	2	MLVTAVVLL	7	-1.204
QM	3	APKTYCEEL	24	-2.303

ALLELE: HLA-A68.1

Threshold for 4 % with score: 1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QTRDKFLSA	72	0.000
QM	2	DTDPLPVVF	151	-0.799
QM	3	FMLVTAVVL	6	-1.609

ALLELE: HLA-A20 Cattle

Threshold for 4 % with score: 3.401

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	3.219
QM	2	MLVTAVVLL	7	2.708
QM	3	KQTGQQVSI	168	1.792
QM	4	APKTYCEEL	24	1.609

ALLELE: HLA-A2.1

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MLVTAVVLL	7	0.960
ANNs+QM	2	TPREAPYEL	85	0.790
ANNs+QM	3	FFFNPGELL	199	0.730
ANNs+QM	4	APKTYCEEL	24	0.600

ALLELE: HLA-B14

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IAQTRDKFL	70	0.850
ANNs+QM	2	PRGTQAVVL	106	0.850
ANNs+QM	3	FMLVTAVVL	6	0.800
ANNs+QM	4	QTRDKFLSA	72	0.460

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KQTGQQVSI	168	2.890
QM	2	PRGTQAVVL	106	1.792
QM	3	FMLVTAVVL	6	0.405

ALLELE: HLA-B27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
-------------------	------	----------	-------------	---------------

ANNs+QM	1	PRGTQAVVL	106	0.610
ANNs+QM	2	FMLVTAVVL	6	0.070
ANNs+QM	3	FFFNPGELL	199	0.060
ANNs+QM	4	TPREAPYEL	85	0.040

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PRGTQAVVL	106	0.880
ANNs+QM	2	FMLVTAVVL	6	0.360
ANNs+QM	3	TPREAPYEL	85	0.270
ANNs+QM	4	KQTGQQVSI	168	0.150

ALLELE: HLA-B*3501

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APKTYCEEL	24	1.000
ANNs+QM	2	TPREAPYEL	85	1.000
ANNs+QM	3	FMLVTAVVL	6	0.860

ANNs+QM 4 IAQTRDKFL 70 0.280

ALLELE: HLA-B*3701

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	MLVTAVVLL	7	1.609	
QM 2	IAQTRDKFL	70	1.609	
QM 3	FFFNPGELL	199	1.609	

ALLELE: HLA-B*3801

Threshold for 4 % with score: 0.445

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	DTDPLPVVF	151	1.361	
QM 2	FFFNPGELL	199	0.693	
QM 3	TPREAPYEL	85	0.445	
QM 4	MLVTAVVLL	7	0.262	

ALLELE: HLA-B*3901

Threshold for 4 % with score: 1.792

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLVTAVVLL	7	2.197
QM	2	FMLVTAVVL	6	1.792
QM	3	FFFNPGELL	199	1.792
QM	4	TPREAPYEL	85	0.588

ALLELE: HLA-B*3902

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	0.693
QM	2	MLVTAVVLL	7	0.693
QM	3	IAQTRDKFL	70	0.693
QM	4	FFFNPGELL	199	0.693

ALLELE: HLA-B40

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	APKTYCEEL	24	-0.693	
QM 2	IAQTRDKFL	70	-0.693	
QM 3	NPGELLPEA	202	-0.693	

ALLELE: HLA-B*4403

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	DTDPLPVVF	151	1.792	
QM 2	APKTYCEEL	24	-1.609	
QM 3	IAQTRDKFL	70	-1.897	

ALLELE: HLA-B*5101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM 1	IAQTRDKFL	70	0.870	
ANNs+QM 2	APKTYCEEL	24	0.850	
ANNs+QM 3	TPREAPYEL	85	0.840	
ANNs+QM 4	DTDPLPVVF	151	0.670	

ALLELE: HLA-B*5102

Threshold for 4 % with score: 9.050

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	1	IAQTRDKFL	70	7.600
QM 2	2	APKTYCEEL	24	6.930
QM 3	3	KQTGQQVSI	168	4.920
QM 4	4	FMLVTAVVL	6	4.460

ALLELE: HLA-B*5103

Threshold for 4 % with score: 9.280

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	1	IAQTRDKFL	70	7.600
QM 2	2	APKTYCEEL	24	6.930
QM 3	3	KQTGQQVSI	168	4.920
QM 4	4	DTDPLPVVF	151	4.830

ALLELE: HLA-B*5201

Threshold for 4 % with score: 1.974

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DTDPLPVVF	151	3.178
QM	2	KQTGQQVSI	168	2.303
QM	3	FMLVTAVVL	6	1.974
QM	4	NPGELLPEA	202	0.278

ALLELE: HLA-B*5301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APKTYCEEL	24	1.000
ANNs+QM	2	TPREAPYEL	85	1.000
ANNs+QM	3	FMLVTAVVL	6	0.350
ANNs+QM	4	NPGELLPEA	202	0.320

ALLELE: HLA-B*5401

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APKTYCEEL	24	1.000
ANNs+QM	2	TPREAPYEL	85	1.000
ANNs+QM	3	NPGELLPEA	202	0.900
ANNs+QM	4	DTDPLPVVF	151	0.670

ALLELE: HLA-B*51

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TPREAPYEL	85	0.990
ANNs+QM	2	NPGELLPEA	202	0.790
ANNs+QM	3	IAQTRDKFL	70	0.770
ANNs+QM	4	APKTYCEEL	24	0.720

ALLELE: HLA-B*5801

Threshold for 4 % with score: -0.223

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DTDPLPVVF	151	3.679
QM	2	QTRDKFLSA	72	0.971

QM	3	IAQTRDKFL	70	0.405
----	---	-----------	----	-------

ALLELE: HLA-B60

Threshold for 4 % with score: 1.386

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPREAPYEL	85	2.079
QM	2	APKTYCEEL	24	1.386
QM	3	IAQTRDKFL	70	1.386
QM	4	FMLVTAVVL	6	0.470

ALLELE: HLA-B61

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QTRDKFLSA	72	-0.693
QM	2	NPGELLPEA	202	-0.693
QM	3	TPREAPYEL	85	-1.204

ALLELE: HLA-B62

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KQTGQQVSI	168	1.751
QM	2	MLVTAVVLL	7	0.875
QM	3	DTDPLPVVF	151	0.642

ALLELE: HLA-B7

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APKTYCEEL	24	1.000
ANNs+QM	2	TPREAPYEL	85	1.000
ANNs+QM	3	IAQTRDKFL	70	0.590
ANNs+QM	4	FMLVTAVVL	6	0.280

ALLELE: HLA-B*0702

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
-------------------	------	----------	-------------	---------------

ANNs+QM	1	APKTYCEEL	24	1.000
ANNs+QM	2	TPREAPYEL	85	1.000
ANNs+QM	3	IAQTRDKFL	70	0.790
ANNs+QM	4	FFFNPGELL	199	0.600

ALLELE: HLA-B8

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IAQTRDKFL	70	0.700
ANNs+QM	2	QTRDKFLSA	72	0.660
ANNs+QM	3	FFFNPGELL	199	0.570
ANNs+QM	4	FMLVTAVVL	6	0.530

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	2.996
QM	2	MLVTAVVLL	7	2.996
QM	3	FFFNPGELL	199	1.792

QM	4	IAQTRDKFL	70	0.875
----	---	-----------	----	-------

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPREAPYEL	85	8.760
QM	2	APKTYCEEL	24	8.090
QM	3	FFFNPGELL	199	7.310
QM	4	MLVTAVVLL	7	2.310

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLVTAVVLL	7	1.386
QM	2	IAQTRDKFL	70	0.979
QM	3	FMLVTAVVL	6	0.788
QM	4	APKTYCEEL	24	0.788

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NPGELLPEA	202	1.751
QM	2	DTDPLPVVF	151	1.030
QM	3	APKTYCEEL	24	0.770
QM	4	TPREAPYEL	85	0.770

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMLVTAVVL	6	0.950
ANNs+QM	2	FFFNPGELL	199	0.750
ANNs+QM	3	MLVTAVVLL	7	0.740
ANNs+QM	4	IAQTRDKFL	70	0.560

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KQTGQQVSI	168	9.000
QM	2	PGELLPEAA	203	8.360
QM	3	FMLVTAVVL	6	7.770
QM	4	PRGTQAVVL	106	7.100

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMLVTAVVL	6	0.840
ANNs+QM	2	IAQTRDKFL	70	0.770
ANNs+QM	3	FFFNPGELL	199	0.630
ANNs+QM	4	TPREAPYEL	85	0.360

ALLELE: H2-Kd

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APKTYCEEL	24	1.000

ANNs+QM	2	FFNPGELL	199	1.000
ANNs+QM	3	TPREAPYEL	85	0.900
ANNs+QM	4	IAQTRDKFL	70	0.880

ALLELE: H2-Kk

Threshold for 4 % with score: 1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1		KQTGQQVSI	168	0.916
QM 2		DTDPLPVVF	151	-0.916
QM 3		FMLVTAVVL	6	-1.204

ALLELE: H2-Ld

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TPREAPYEL	85	1.000
ANNs+QM	2	DTDPLPVVF	151	0.510
ANNs+QM	3	QTRDKFLSA	72	0.360
ANNs+QM	4	PRGTQAVVL	106	0.300

ALLELE: HLA-G

Threshold for 4 % with score: 9.260

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLVTAVVLL	7	18.050
QM	2	PRGTQAVVL	106	13.980
QM	3	APKTYCEEL	24	7.450
QM	4	TPREAPYEL	85	7.450

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	5.380
QM	2	KQTGQQVSI	168	5.000
QM	3	MLVTAVVLL	7	3.470
QM	4	TPREAPYEL	85	3.130

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PGELLPEAA	203	7.340
QM	2	PRGTQAVVL	106	4.000
QM	3	NPGELLPEA	202	3.620
QM	4	IAQTRDKFL	70	3.330

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APKTYCEEL	24	10.840
QM	2	TPREAPYEL	85	9.660
QM	3	FMLVTAVVL	6	6.380
QM	4	IAQTRDKFL	70	6.320

ALLELE: Mamu-A*01

Threshold for 4 % with score: 3.650

Prediction method	Rank	Sequence	Residue No.	Peptide Score
-------------------	------	----------	-------------	---------------

QM	1	FFFNPGELL	199	3.820
QM	2	QTRDKFLSA	72	3.780
QM	3	APKTYCEEL	24	-1.850

ALLELE: HLA-A*0204

Threshold for 4 % with score: 12.070

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMLVTAVVL	6	19.260
QM	2	MLVTAVVLL	7	18.830
QM	3	FFFNPGELL	199	12.890
QM	4	TPREAPYEL	85	7.880

ALLELE: HLA-B*2703

Threshold for 4 % with score: 5.130

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPREAPYEL	85	3.300
QM	2	PRGTQAVVL	106	2.700
QM	3	FFFNPGELL	199	1.490
QM	4	DTDPLPVVF	151	1.000

ALLELE: HLA-B*2704

Threshold for 4 % with score: 8.790

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	APKTYCEEL	24	7.580	
QM 2	TPREAPYEL	85	7.460	
QM 3	IAQTRDKFL	70	6.920	
QM 4	PRGTQAVVL	106	4.420	

ALLELE: HLA-B*2902

Threshold for 4 % with score: 7.750

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM 1	TPREAPYEL	85	8.150	
QM 2	MLVTAVVLL	7	6.800	
QM 3	PRGTQAVVL	106	4.480	
QM 4	PGELLPEAA	203	2.320	

ALLELE: HLA-A*3301

Threshold for 4 % with score: 3.840

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FFFNPGELL	199	2.170
QM	2	DTDPLPVVF	151	-1.000
QM	3	FMLVTAVVL	6	-1.490

ALLELE: HLA-B44

Threshold for 4 % with score: 4.900

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APKTYCEEL	24	5.360
QM	2	PGELLPEAA	203	1.170
QM	3	FMLVTAVVL	6	-0.070

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FFFNPGELL	199	0.440

ANNs+QM	2	IAQTRDKFL	70	0.150
ANNs+QM	3	MLVTAVVLL	7	0.030
ANNs+QM	4	APKTYCEEL	24	0.030

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IAQTRDKFL	70	1.000
ANNs+QM	2	FFFNPGELL	199	0.960
ANNs+QM	3	DTDPLPVVF	151	0.950
ANNs+QM	4	MLVTAVVLL	7	0.940