



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

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Antigen Name	Untitled
Scanned on	Mon Mar 29 00:02:29 2010
Length of input sequence	941 amino acids
Number of nonamers from input sequence	933
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	ASEAEALAE	63	1.000
ANNs+QM	2	GADLLALTL	246	0.920
ANNs+QM	3	SAHGTNAAS	587	0.910
ANNs+QM	4	VTDLTGLEI	135	0.860

ALLELE: HLA-A2

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLVTDLTGL	133	0.990
ANNs+QM	2	GLRQLVADL	528	0.970
ANNs+QM	3	GLDSLPPAA	55	0.960
ANNs+QM	4	ALVAVGADL	241	0.880

ALLELE: HLA-A*0201

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GAAPGLDSL	51	1.000
ANNs+QM	2	GLDSLPPAA	55	1.000
ANNs+QM	3	SLPPAASEA	58	1.000
ANNs+QM	4	SMLDEGTAA	147	1.000

ALLELE: HLA-A*0202

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	NICTAQVLL	333	4.150
ANNs+QM	2	QAHDRGALV	235	1.770
ANNs+QM	3	ALVAVGADL	241	1.000
ANNs+QM	4	GIEIVTADL	195	0.990

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPAGILDTL	39	0.980
ANNs+QM	2	SLPPAASEA	58	0.980
ANNs+QM	3	GLRQLVADL	528	0.960
ANNs+QM	4	SEAEALAEI	64	0.950

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VVVDADVFT	173	1.000
ANNs+QM	2	KVGEHAERL	622	1.000
ANNs+QM	3	VPAGILDTL	39	0.950
ANNs+QM	4	AVVLDAFGV	432	0.900

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDGTPAYRL	308	11.130
QM	2	DTHTPPVLL	92	10.250
QM	3	VTADLRAGL	199	9.320
QM	4	VLATRAKPL	186	8.810

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DSLDDLAVK	29	0.960
ANNs+QM	2	TVLARVPGR	387	0.930
ANNs+QM	3	ADEVLARAK	396	0.920
ANNs+QM	4	LPPAASEAE	59	0.650

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IEIVTADLR	196	1.000
ANNs+QM	2	TVLARVPGR	387	0.980
ANNs+QM	3	ADEVLARAK	396	0.940
ANNs+QM	4	RVHAHAELI	363	0.900

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VFTQTA AVL	179	11.220
QM	2	APASDTAGL	521	10.700
QM	3	VHAKHARQL	289	10.560
QM	4	NICTAQVLL	333	10.040

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TFADRHIGL	6	1.000
ANNs+QM	2	NFQTLVTDL	130	1.000
ANNs+QM	3	VFTQTA AVL	179	1.000
ANNs+QM	4	ATRAKPLGI	188	0.930

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RVHAHA EAI	363	1.000
ANNs+QM	2	SAHG TNAAS	587	0.970
ANNs+QM	3	QVYVDGANL	661	0.930
ANNs+QM	4	MRYLRALAD	473	0.920

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TVLARVPGR	387	2.079
QM	2	AVVLDAFGV	432	-2.120
QM	3	TLVTDLTGL	133	-2.526

ALLELE: HLA-A31

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IEIVTADLR	196	0.980
ANNs+QM	2	TVLARVPGR	387	0.930
ANNs+QM	3	LRAKVGEHA	619	0.900
ANNs+QM	4	PKVWPAVRR	912	0.850

ALLELE: HLA-A*0301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ADEVLARAK	396	0.980
ANNs+QM	2	VTDLTGLEI	135	0.900
ANNs+QM	3	DSLDDLAVK	29	0.840
ANNs+QM	4	AASLTAITS	761	0.820

ALLELE: HLA-A*3302

Threshold for 4 % with score: -0.105

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TVLARVPGR	387	2.708
QM	2	EAEALAE LR	65	2.197
QM	3	DSQAVATML	15	0.405
QM	4	DSLDDLAVK	29	0.405

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TVLARVPGR	387	5.991
QM	2	DSLDDLAVK	29	3.989
QM	3	EAEALAELR	65	2.708
QM	4	VVVDADVFT	173	2.485

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PKVWPAVRR	912	5.991
QM	2	EAEALAELR	65	3.689
QM	3	TVLARVPGR	387	3.689
QM	4	SMMRYLRAL	471	3.219

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VLATRAKPL	186	1.000
ANNs+QM	2	KVGEHAERL	622	1.000
ANNs+QM	3	TDTGAAPGL	48	0.990
ANNs+QM	4	GLDSLPPAA	55	0.990

ALLELE: HLA-B14

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SEAEALAEI	64	1.000
ANNs+QM	2	FGGPHAGYL	279	1.000
ANNs+QM	3	VHAKHARQL	289	1.000
ANNs+QM	4	ARRVHAHAE	361	1.000

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRAHLAPFL	710	4.094
QM	2	IRMMGAEGL	751	4.094
QM	3	LRAKVGEHA	619	2.996
QM	4	LRALADKDI	476	2.890

ALLELE: HLA-B27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRIDGAYGD	919	1.000
ANNs+QM	2	GRLVGVSD	299	0.990
ANNs+QM	3	LRALADKDI	476	0.950
ANNs+QM	4	IRMMGAEGL	751	0.740

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRIDGAYGD	919	0.990
ANNs+QM	2	GRLVGVSVD	299	0.970
ANNs+QM	3	LRALADKDI	476	0.970
ANNs+QM	4	VRAHLAPFL	710	0.940

ALLELE: HLA-B*3501

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPAGILDTL	39	1.000
ANNs+QM	2	VPGRADEVL	392	1.000
ANNs+QM	3	APASDTAGL	521	1.000
ANNs+QM	4	APHTAQCLL	881	1.000

ALLELE: HLA-B*3701

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDTHVAVVL	427	4.094
QM	2	LEIANASML	141	3.912
QM	3	TDTGAAPGL	48	3.689
QM	4	SDGTPAYRL	308	3.689

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	CHDNGDVDL	608	4.500
QM	2	VHAKHARQL	289	3.401
QM	3	EHDIAEICA	645	2.460
QM	4	AHDRGALVA	236	2.197

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	CHDNGDVDL	608	4.905
QM	2	VHAKHARQL	289	4.500
QM	3	IRMMGAEGL	751	3.401
QM	4	IGVDSLDDL	26	2.890

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DSQAVATML	15	0.875
QM	2	VPAGILDTL	39	0.875
QM	3	NFQTLVTDL	130	0.875
QM	4	GIEIVTADL	195	0.875

ALLELE: HLA-B40

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEIANASML	141	4.382
QM	2	SEAEALAEI	64	3.689
QM	3	AEGLRAASL	756	3.689
QM	4	TETSMMYL	468	2.996

ALLELE: HLA-B*4403

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SEAEALAEI	64	3.584
QM	2	LEIANASML	141	3.401
QM	3	AEGLRAASL	756	2.485
QM	4	AEICAAVHD	649	2.197

ALLELE: HLA-B*5101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RALADANTV	73	1.000
ANNs+QM	2	GADLLALTL	246	0.980
ANNs+QM	3	KPLGIEIVT	192	0.960
ANNs+QM	4	HPFAPASDT	518	0.930

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RALADANTV	73	11.760
QM	2	QAHDRGALV	235	10.150
QM	3	VTDLTGLEI	135	9.890
QM	4	RVHAHAELI	363	7.650

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RALADANTV	73	11.760
QM	2	QAHDRGALV	235	10.150
QM	3	VTDLTGLEI	135	9.890
QM	4	RVHAHAELI	363	7.650

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPGRADEVL	392	3.209
QM	2	KPLGIEIVT	192	2.996
QM	3	TTDTHVAVV	426	2.996
QM	4	SNICTAQVL	332	1.887

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GPVAVRAHL	706	1.000
ANNs+QM	2	APHTAQCLL	881	1.000
ANNs+QM	3	VPGRADEVL	392	0.980
ANNs+QM	4	APASDTAGL	521	0.920

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APHTAQCLL	881	1.000
ANNs+QM	2	VPGRADEVL	392	0.990
ANNs+QM	3	LPPAASEAE	59	0.950
ANNs+QM	4	GPVKRVVVD	168	0.940

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPGRADEVL	392	1.000
ANNs+QM	2	VPAGILDTL	39	0.970
ANNs+QM	3	HPFAPASDT	518	0.960
ANNs+QM	4	APHTAQCLL	881	0.960

ALLELE: HLA-B*5801

Threshold for 4 % with score: -0.223

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MSFPVAGTL	828	1.887
QM	2	RALADANTV	73	1.289
QM	3	ITKLTGITV	803	1.194
QM	4	VTADLRAGL	199	1.099

ALLELE: HLA-B60

Threshold for 4 % with score: 1.386

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SEAEALAEI	64	5.768
QM	2	LEIANASML	141	5.768
QM	3	TETSMMRYL	468	5.075
QM	4	AEGLRAASL	756	5.075

ALLELE: HLA-B61

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SEAEALAEI	64	2.773
QM	2	LEIANASML	141	2.773
QM	3	TETSMMRYL	468	2.773
QM	4	AEGLRAASL	756	2.079

ALLELE: HLA-B62

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLRQLVADL	528	2.485
QM	2	AQVLLAVLA	337	2.262
QM	3	ALVAVGADL	241	1.386
QM	4	DLAVKAVPA	33	0.875

ALLELE: HLA-B7

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPAGILDTL	39	1.000
ANNs+QM	2	APASDTAGL	521	1.000
ANNs+QM	3	GPVAVRAHL	706	1.000
ANNs+QM	4	APHTAQCLL	881	1.000

ALLELE: HLA-B*0702

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPAGILDTL	39	1.000
ANNs+QM	2	VPGRADEVL	392	1.000
ANNs+QM	3	SMMRYLRAL	471	1.000
ANNs+QM	4	APASDTAGL	521	1.000

ALLELE: HLA-B8

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VDTLTGLEI	135	0.750
ANNs+QM	2	IEIVTADLR	196	0.740
ANNs+QM	3	GADLLALTL	246	0.740
ANNs+QM	4	EAIAGALGD	369	0.720

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LAVIGVDSL	23	3.689
QM	2	EALAE LRAL	67	3.689
QM	3	IRMMGAEGL	751	3.689
QM	4	MSFPVAGTL	828	3.584

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VFTQTA AVL	179	10.760
QM	2	SNICTA QVL	332	8.490
QM	3	VPGRADE VL	392	7.370
QM	4	SEAEAL AEL	64	7.030

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPAGILDTL	39	2.580
QM	2	TAQVLLAVL	336	2.580
QM	3	NFQTLVTDL	130	2.485
QM	4	GLRQLVADL	528	2.485

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPAGILDTL	39	2.667
QM	2	VDGANLNAL	664	1.751
QM	3	VRAHLAPFL	710	1.751
QM	4	VHDAGGQVY	655	1.386

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SNICTAQVL	332	1.000
ANNs+QM	2	VDGANLNAL	664	1.000
ANNs+QM	3	CHDNGDVDL	608	0.990
ANNs+QM	4	FGGPHAGYL	279	0.980

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FGGPHAGYL	279	18.460
QM	2	PGHPFAPEL	719	18.380
QM	3	GPVAVRAHL	706	15.110
QM	4	FGVAAAAPA	438	13.750

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PGHPFAPEL	719	1.000
ANNs+QM	2	APHTAQCLL	881	1.000
ANNs+QM	3	VPAGILDTL	39	0.990
ANNs+QM	4	VRAHLAPFL	710	0.990

ALLELE: H2-Kd

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTHTPPVLL	92	1.000
ANNs+QM	2	NFQTLVTDL	130	1.000
ANNs+QM	3	APHTAQCLL	881	0.990
ANNs+QM	4	VTADLRAGL	199	0.980

ALLELE: H2-Kk

Threshold for 4 % with score: 1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TETSMMRYL	468	3.689
QM	2	VEPTESESL	838	3.401
QM	3	SEAEALAEI	64	2.996
QM	4	LEIANASML	141	2.996

ALLELE: H2-Ld

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TFADRHIGL	6	1.000
ANNs+QM	2	DSQAVATML	15	1.000
ANNs+QM	3	ASYHGAGGL	349	1.000
ANNs+QM	4	VPGRADEVL	392	1.000

ALLELE: HLA-G

Threshold for 4 % with score: 9.260

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VLATRAKPL	186	18.180
QM	2	VHAKHARQL	289	16.780
QM	3	KVGEHAERL	622	16.780
QM	4	NICTAQVLL	333	13.980

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMMRYLRAL	471	13.670
QM	2	TLVTDLTGL	133	10.670
QM	3	TETSMMRYL	468	10.470
QM	4	ALVAVGADL	241	8.010

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IRAEIDKVG	859	7.670
QM	2	SMMRYLRAL	471	5.360
QM	3	CHDNGDVDL	608	5.330
QM	4	HIGLDSQAV	11	4.670

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GPVAVRAHL	706	14.970
QM	2	APHTAQCLL	881	14.410
QM	3	TVDDVAKRL	810	12.480
QM	4	APASDTAGL	521	12.130

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RVHAHAETAI	363	6.820
QM	2	TFADRHIGL	6	4.580
QM	3	RVDADHVSU	412	4.520
QM	4	QAHDRGALV	235	4.150

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLDSQAVAT	13	18.470
QM	2	VLDAFGVAA	434	18.200
QM	3	DLAVKAVPA	33	18.130
QM	4	VLATRAKPL	186	17.400

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRAHLAPFL	710	10.860
QM	2	LRAKVGEGA	619	7.800
QM	3	RRIDGAYGD	919	7.570
QM	4	AHAETAIAGA	366	4.670

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRAHLAPFL	710	17.990
QM	2	GTNAASAAL	590	14.690
QM	3	AVGADLLAL	244	14.010
QM	4	VDGANLNAL	664	12.810

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SEAEALAEI	64	12.330
QM	2	VEPTESESL	838	10.600
QM	3	PDGEFFGVI	208	9.700
QM	4	TETSMRYL	468	9.700

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MSFPVAGTL	828	5.110
QM	2	TVLARVPGR	387	3.120
QM	3	GIEIVTADL	195	1.860
QM	4	DSLPPAASE	57	1.270

ALLELE: HLA-B44

Threshold for 4 % with score: 4.900

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	A EGLRAASL	756	13.090
QM	2	SEAEALAEI	64	10.360
QM	3	GTNAASAAL	590	8.170
QM	4	AEICAAVHD	649	8.010

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TVLARVPGR	387	1.000
ANNs+QM	2	RVHAHAELI	363	0.980
ANNs+QM	3	GTNAASAAL	590	0.890
ANNs+QM	4	SAHGTTAAS	587	0.860

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VTADLRAGL	199	1.000
ANNs+QM	2	TTDTHVAVV	426	1.000
ANNs+QM	3	DTHTPPVLL	92	0.990
ANNs+QM	4	QAHDRGALV	235	0.990