



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

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Antigen Name	Untitled
Scanned on	Tue Apr 20 00:06:45 2010
Length of input sequence	679 amino acids
Number of nonamers from input sequence	671
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	QSDETFVYL	208	0.830
ANNs+QM	2	QSTRPARGL	13	0.470
ANNs+QM	3	LEDSLDAVL	268	0.430
ANNs+QM	4	AVHGSTVVL	304	0.360

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVHGSTVVL	304	1.620
ANNs+QM	2	GLSSPDEVL	400	0.990

ANNs+QM	3	LMLVAATQL	98	0.970
ANNs+QM	4	AAPDPQQRL	175	0.950

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LMLVAATQL	98	1.000
ANNs+QM	2	GLLGLEDSL	264	1.000
ANNs+QM	3	AVHGSTVVL	304	1.000
ANNs+QM	4	GLSSPDEVL	400	0.990

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLSSPDEVL	400	0.980
ANNs+QM	2	AVHGSTVVL	304	0.970
ANNs+QM	3	KNLSGAHNV	330	0.950
ANNs+QM	4	GLLGLEDSL	264	0.920

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LMLVAATQL	98	0.880
ANNs+QM	2	HAAGLRAQA	113	0.810
ANNs+QM	3	VAATQLFFL	101	0.580
ANNs+QM	4	LEDSDLAVL	268	0.480

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VAATQLFFL	101	1.000
ANNs+QM	2	VYWITFAGI	610	0.990
ANNs+QM	3	KNLSGAHNV	330	0.980
ANNs+QM	4	AVHGSTVVL	304	0.940

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAATQLFFL	101	10.450
QM	2	AAPDPQQRL	175	9.900
QM	3	NKPDAAAVL	196	9.340
QM	4	GLLGLEDSL	264	7.240

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KPDAAAVLK	197	0.930
ANNs+QM	2	EVAGKLNNK	189	0.870
ANNs+QM	3	VVLDAKTGE	341	0.720
ANNs+QM	4	KIVAASAVI	389	0.440

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KPDAAAVLK	197	1.000

ANNs+QM	2	IWAASAVIE	390	0.990
ANNs+QM	3	EVAGKLNNK	189	0.840
ANNs+QM	4	KIVAASAVI	389	0.680

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VYWITFAGI	610	12.970
QM	2	WSGSTFANL	489	11.590
QM	3	NKPDAAAVL	196	10.030
QM	4	AHNVSAVVL	335	9.620

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VYWITFAGI	610	1.000
ANNs+QM	2	VYLARAVDP	214	0.930
ANNs+QM	3	RHRTGNAVI	87	0.900
ANNs+QM	4	IMLDNPARN	630	0.530

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EVAGKLNNK	189	1.000
ANNs+QM	2	QLFFLQVSH	105	0.980
ANNs+QM	3	KPDAAAVLK	197	0.960
ANNs+QM	4	RQYPGGSLA	243	0.920

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RQYPGGSLA	243	-1.715
QM	2	EVAGKLNNK	189	-2.120
QM	3	KIVAASAVI	389	-2.120

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KPDAAAVLK	197	0.900
ANNs+QM	2	RQYPGGSLA	243	0.860
ANNs+QM	3	PRIIKATVA	526	0.750
ANNs+QM	4	LLGLEDSL	265	0.620

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KPDAAAVLK	197	0.980
ANNs+QM	2	EVAGKLNNK	189	0.950
ANNs+QM	3	QQVQQAKNL	324	0.900
ANNs+QM	4	IMLDNPARN	630	0.900

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EVAGKLNNK	189	0.405
QM	2	QSTRPARGL	13	-0.693

QM	3	LMLVAATQL	98	-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	EVAGKLNNK	189	6.579
QM	2	IVDRNNDRL	138	1.386
QM	3	AVHGSTVVL	304	1.386
QM	4	KPDAAAVLK	197	1.099

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NKPDAAAVL	196	6.215
QM	2	LKVTDVQPA	125	4.605
QM	3	GKLNNKPDA	192	4.605
QM	4	LMLVAATQL	98	3.219

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLSSPDEVL	400	1.000
ANNs+QM	2	KPDAAAVLK	197	0.980
ANNs+QM	3	QSDETFVYL	208	0.970
ANNs+QM	4	KIVAASAVI	389	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	DAAAVLKKL	199	0.930
ANNs+QM	2	AAPDPQQRL	175	0.920
ANNs+QM	3	VAATQLFFL	101	0.900
ANNs+QM	4	QSDETFVYL	208	0.890

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HRTGNAVIL	88	4.094
QM	2	LRQYPGGSL	242	4.094
QM	3	RQYPGGSLA	243	3.401
QM	4	LRDIAQEVA	183	2.996

ALLELE: HLA-B27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PRIIKATVA	526	1.000
ANNs+QM	2	LRDIAQEVA	183	0.850
ANNs+QM	3	RQYPGGSLA	243	0.640
ANNs+QM	4	LRQYPGGSL	242	0.550

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PRIIKATVA	526	0.980
ANNs+QM	2	LRDIAQEVA	183	0.950
ANNs+QM	3	LRQYPGGSL	242	0.910

ANNs+QM	4	QLFFLQVSH	105	0.740
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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	SPFEPGSVN	380	0.870
ANNs+QM	2	KPDAAAVLK	197	0.810
ANNs+QM	3	EPGSVNKIV	383	0.730
ANNs+QM	4	RAVDPAVAS	218	0.550

ALLELE: HLA-B*3701

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDWDGHGLL	258	5.298
QM	2	WDGHLLGL	260	3.689
QM	3	LDAKTGEVL	343	3.689
QM	4	EDSLDAVLA	269	2.996

ALLELE: HLA-B*3801

Threshold for 4 % with score: 0.445

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AHNVSAVVL	335	3.401
QM	2	QSDETFVYL	208	1.974
QM	3	IAQEVAGKL	186	1.138
QM	4	IVDRNNDRL	138	1.099

ALLELE: HLA-B*3901

Threshold for 4 % with score: 1.792

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AHNVSAVVL	335	4.500
QM	2	QSDETFVYL	208	2.890
QM	3	HRTGNAVIL	88	2.708
QM	4	LRQYPGGSL	242	2.708

ALLELE: HLA-B*3902

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LQVSHAAGL	109	2.996
QM	2	NKPDAAAVL	196	2.996
QM	3	QQVQQAKNL	324	2.996
QM	4	TGNAVILVL	90	0.875

ALLELE: HLA-B*40

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEDSDLDAVL	268	2.303
QM	2	IDWDGHGLL	258	1.609
QM	3	LDAKTGEVL	343	1.609
QM	4	SDGAPGHSA	639	1.322

ALLELE: HLA-B*4403

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEDSDLDAVL	268	1.386
QM	2	DAAAVLKKL	199	1.111

QM	3	LDAKTGEVL	343	0.000
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ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EPGSV NKIV	383	1.000
ANNs+QM	2	KPDAAAVLK	197	0.960
ANNs+QM	3	IAQEVAGKL	186	0.840
ANNs+QM	4	RAVDPAVAS	218	0.840

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPGSV NKIV	383	15.740
QM	2	GAHNVSAVV	334	13.030
QM	3	LGQRTGVGL	467	10.390
QM	4	VYWITFAGI	610	9.640

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPGSV NKIV	383	15.740
QM	2	GAHNVSAVV	334	13.030
QM	3	LGQRTGVGL	467	10.390
QM	4	VYWITFAGI	610	9.640

ALLELE: HLA-B*5201				
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Threshold for 4 % with score: 1.974

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPGSVNKIV	383	4.796
QM	2	TGNAVILVL	90	3.178
QM	3	GAHNVSAVV	334	3.091
QM	4	KIVAASAVI	389	2.986

ALLELE: HLA-B*5301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KPDAAAVLK	197	0.960
ANNs+QM	2	SPFEPGSVN	380	0.960
ANNs+QM	3	EPGSVNKIV	383	0.830
ANNs+QM	4	IDWDGHGLL	258	0.570

ALLELE: HLA-B*5401

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KPDAAAVLK	197	0.990
ANNs+QM	2	SPFEPGSVN	380	0.970
ANNs+QM	3	PRIIKATVA	526	0.930
ANNs+QM	4	EPGSVNKIV	383	0.900

ALLELE: HLA-B*51

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SPFEPGSVN	380	1.000
ANNs+QM	2	EPGSVNKIV	383	1.000
ANNs+QM	3	AAPDPQQRL	175	0.970

ANNs+QM	4	IAQEVAGKL	186	0.940
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ALLELE: HLA-B*5801

Threshold for 4 % with score: -0.223

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QSDETFVYL	208	1.664
QM	2	IAQEVAGKL	186	1.599
QM	3	WSGSTFANL	489	0.971
QM	4	QSTRPARGL	13	0.693

ALLELE: HLA-B60

Threshold for 4 % with score: 1.386

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEDSLDAVL	268	5.170
QM	2	WDGHGLLGL	260	3.689
QM	3	LDAKTGEVL	343	3.689
QM	4	IDWDGHGLL	258	2.996

ALLELE: HLA-B61

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEDSLDAVL	268	2.079
QM	2	EDSLDAVLA	269	0.916
QM	3	SDGAPGHTA	639	0.916
QM	4	IDWDGHGLL	258	0.693

ALLELE: HLA-B62

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RQYPGGSLA	243	2.262
QM	2	LQVSHAAGL	109	1.386
QM	3	QQVQQAKNL	324	1.386
QM	4	GLLGLEDSL	264	0.875

ALLELE: HLA-B7

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RHRTGNAVI	87	0.940
ANNs+QM	2	KPDAAAVLK	197	0.900
ANNs+QM	3	DAAAVLKKL	199	0.890
ANNs+QM	4	LEDSDLAVL	268	0.740

ALLELE: HLA-B*0702

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EPGSVNKIV	383	1.000
ANNs+QM	2	KPDAAAVLK	197	0.990
ANNs+QM	3	SPFEPGSVN	380	0.930
ANNs+QM	4	PRIIKATVA	526	0.800

ALLELE: HLA-B8

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PRIIKATVA	526	0.750
ANNs+QM	2	KPDAAAVLK	197	0.720
ANNs+QM	3	LRDIAQEVA	183	0.700

ANNs+QM	4	VQQAKNLSG	326	0.700
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ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QQVQQAKNL	324	3.178
QM	2	LMLVAATQL	98	2.996
QM	3	LQVSHAAGL	109	2.996
QM	4	GLLGLEDSL	264	2.303

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDWDGHGLL	258	6.160
QM	2	NKPDAAAVL	196	5.430
QM	3	DAAAVLKKL	199	4.580
QM	4	LDAKTGEVL	343	4.430

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLLGLEDSL	264	1.792
QM	2	LEDSDLDAVL	268	1.792
QM	3	DAAAVLKKL	199	1.577
QM	4	VAATQLFFL	101	1.482

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DAAAVLKKL	199	1.846
QM	2	WDGHGLLGL	260	1.569
QM	3	VAATQLFFL	101	1.153
QM	4	TGNAVILVL	90	0.875

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IVDRNNDRL	138	1.000
ANNs+QM	2	WSGSTFANL	489	1.000
ANNs+QM	3	GKLNNKPDA	192	0.980
ANNs+QM	4	QSDETFVYL	208	0.980

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NKPDAAAVL	196	18.610
QM	2	LGQRTGVGL	467	16.090
QM	3	TGNAVILVL	90	14.270
QM	4	AAPDPQQRL	175	13.860

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LMLVAATQL	98	0.980
ANNs+QM	2	PRIIKATVA	526	0.920
ANNs+QM	3	WSGSTFANL	489	0.880

ANNs+QM	4	QSDETFVYL	208	0.860
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TFVYLARAV	212	1.000
ANNs+QM	2	VYWITFAGI	610	0.990
ANNs+QM	3	LRQYPGGSL	242	0.980
ANNs+QM	4	QSTRPARGL	13	0.870

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEDSLDAVL	268	3.689
QM	2	RHRTGNAVI	87	2.303
QM	3	IDWDGHGLL	258	2.079
QM	4	WDGHGLLGL	260	2.079

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QSTRPARGL	13	1.000
ANNs+QM	2	QSDETFVYL	208	0.930
ANNs+QM	3	LRQYPGGSL	242	0.710
ANNs+QM	4	AHNVSAVVL	335	0.680

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAPDPQQRL	175	14.840
QM	2	NKPDAAAVL	196	14.840
QM	3	TGNAVILVL	90	10.780
QM	4	VAATQLFFL	101	10.780

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LQVSHAAGL	109	9.800
QM	2	LMLVAATQL	98	8.040
QM	3	DAAAVLKKL	199	6.520
QM	4	KNLSGAHNV	330	5.910

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDGAPGHSA	639	11.340
QM	2	KLNNKPDAA	193	9.340
QM	3	GHGLLGLED	262	6.220
QM	4	LRQYPGGS�	242	6.000

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IAQEVAGKL	186	9.650
QM	2	SPFEPGSVN	380	9.540
QM	3	QSDETFVYL	208	9.390

QM	4	DAAAVLKKL	199	9.150
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ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAPDPQQRL	175	11.760
QM	2	QSDETFVYL	208	4.130
QM	3	TFVYLARAV	212	3.560
QM	4	VYWITFAGI	610	2.390

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLSSPDEVL	400	18.690
QM	2	KLNNKPDAA	193	17.500
QM	3	DAAAVLKKL	199	15.300
QM	4	NKPDAAAVL	196	15.030

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HRTGNAVIL	88	6.770
QM	2	AVHGSTVVL	304	4.100
QM	3	PRIIKATVA	526	3.040
QM	4	LRQYPGGSL	242	2.820

ALLELE: HLA-B*2704				
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Threshold for 4 % with score: 8.790

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	WDGHGLLGL	260	10.790
QM	2	GHGLLGLED	262	8.610
QM	3	HRTGNAVIL	88	7.550
QM	4	LRQYPGGSL	242	7.480

ALLELE: HLA-B*2902

Threshold for 4 % with score: 7.750

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDWDGHGLL	258	9.300
QM	2	WDGHGLLGL	260	7.750
QM	3	LEDSLDAVL	268	7.650
QM	4	LDAKTGEVL	343	6.560

ALLELE: HLA-A*3301

Threshold for 4 % with score: 3.840

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HAAGLRAQA	113	2.720
QM	2	GAHNVSAVV	334	2.660
QM	3	QLFFLQVSH	105	1.870
QM	4	AVHGSTVVL	304	1.810

ALLELE: HLA-B44

Threshold for 4 % with score: 4.900

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LEDSLDAVL	268	5.830
QM	2	GHGLLGLED	262	4.100
QM	3	SDGAPGHTA	639	3.290

QM	4	LGQRTGVGL	467	1.840
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ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EVAGKLNNK	189	1.000
ANNs+QM	2	KPDAAAVLK	197	0.950
ANNs+QM	3	SHAAGLRAQ	112	0.900
ANNs+QM	4	IVAASAVIE	390	0.900

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HNVSAVVLD	336	1.000
ANNs+QM	2	VYWITFAGI	610	0.980
ANNs+QM	3	VAATQLFFL	101	0.970
ANNs+QM	4	GLSSPDEVL	400	0.960