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	Sat Mar 13 00:41:35 2010
Length of input sequence	291 amino acids
Number of nonamers from input sequence	283
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

<table>
<tr><th colspan="5">ALLELE: HLA-A1</th></tr>
<tr><td colspan="5">Threshold for .5 % with score: .5</td></tr>
<tr><td>Prediction method</td><td>Rank</td><td>Sequence</td><td>Residue No.</td><td>Peptide Score</td></tr>
<tr><td>**ANNs+QM**</td><td>1</td><td>AVDVPESRI</td><td>259</td><td>0.680</td></tr>
<tr><td>**ANNs+QM**</td><td>2</td><td>APELLPASI</td><td>33</td><td>0.300</td></tr>
<tr><td>**ANNs+QM**</td><td>3</td><td>AVIIDADGA</td><td>251</td><td>0.200</td></tr>
<tr><td>**ANNs+QM**</td><td>4</td><td>RGNLAAAMQ</td><td>145</td><td>0.170</td></tr>
</table>

<table>
<tr><th colspan="5">ALLELE: HLA-A2</th></tr>
<tr><td colspan="5">Threshold for .5 % with score: .5</td></tr>
<tr><td>Prediction method</td><td>Rank</td><td>Sequence</td><td>Residue No.</td><td>Peptide Score</td></tr>
<tr><td>**ANNs+QM**</td><td>1</td><td>NLAAAMQGL</td><td>147</td><td>1.000</td></tr>
<tr><td>**ANNs+QM**</td><td>2</td><td>GLRVAVEAL</td><td>220</td><td>0.980</td></tr>
</table>

ANNs+QM	3	FLRRQAPEL	28	0.960
ANNs+QM	4	AAMQGLLAL	150	0.670

<table>
<tr><th colspan="5">ALLELE: HLA-A*0201</th></tr>
<tr><td colspan="5">Threshold for .5 % with score: .5</td></tr>
<tr><td>Prediction method</td><td>Rank</td><td>Sequence</td><td>Residue No.</td><td>Peptide Score</td></tr>
<tr><td>ANNs+QM</td><td>1</td><td>VTWPLPDRL</td><td>1</td><td>1.000</td></tr>
<tr><td>ANNs+QM</td><td>2</td><td>FLRRQAPEL</td><td>28</td><td>1.000</td></tr>
<tr><td>ANNs+QM</td><td>3</td><td>NLAAAMQGL</td><td>147</td><td>0.990</td></tr>
<tr><td>ANNs+QM</td><td>4</td><td>AAMQGLLAL</td><td>150</td><td>0.970</td></tr>
</table>

<table>
<tr><th colspan="5">ALLELE: HLA-A*0202</th></tr>
<tr><td colspan="5">Threshold for .5 % with score: .5</td></tr>
<tr><td>Prediction method</td><td>Rank</td><td>Sequence</td><td>Residue No.</td><td>Peptide Score</td></tr>
<tr><td>ANNs+QM</td><td>1</td><td>FLRRQAPEL</td><td>28</td><td>0.990</td></tr>
<tr><td>ANNs+QM</td><td>2</td><td>ASISGGAPL</td><td>39</td><td>0.990</td></tr>
<tr><td>ANNs+QM</td><td>3</td><td>NLAAAMQGL</td><td>147</td><td>0.980</td></tr>
<tr><td>ANNs+QM</td><td>4</td><td>IAGTAAVAV</td><td>102</td><td>0.930</td></tr>
</table>

<table>
<tr><th colspan="5">ALLELE: HLA-A*0203</th></tr>
<tr><td colspan="5">Threshold for .5 % with score: .5</td></tr>
<tr><td>Prediction method</td><td>Rank</td><td>Sequence</td><td>Residue No.</td><td>Peptide Score</td></tr>
<tr><td>ANNs+QM</td><td>1</td><td>FLRRQAPEL</td><td>28</td><td>0.950</td></tr>
<tr><td>ANNs+QM</td><td>2</td><td>NLAAAMQGL</td><td>147</td><td>0.940</td></tr>
<tr><td>ANNs+QM</td><td>3</td><td>QGLLALPLL</td><td>153</td><td>0.940</td></tr>
<tr><td>ANNs+QM</td><td>4</td><td>FARLYAVEL</td><td>112</td><td>0.460</td></tr>
</table>

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KVYITDDYT	90	1.000
ANNs+QM	2	EHYEKLEGV	121	0.990
ANNs+QM	3	TDGDSGLRV	215	0.880
ANNs+QM	4	QVTDGDSGL	213	0.850

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTWPLPDRL	1	15.510
QM	2	IAGTAAVAV	102	9.710
QM	3	FLRRQAPEL	28	9.430
QM	4	MQGLLALPL	152	8.920

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRRQAPELL	29	0.650
ANNs+QM	2	DSGLRVAVE	218	0.500
ANNs+QM	3	VPLTFAGKI	129	0.270
ANNs+QM	4	AAMQGLLAL	150	0.220

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KVYITDDYT	90	0.970

ANNs+QM	2	AVDVPESRI	259	0.900
ANNs+QM	3	YTATGIAGT	97	0.610
ANNs+QM	4	LLPASISGG	36	0.590

ALLELE: HLA-A24

Threshold for 4 % with score: 7.670

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APELLPASI	33	10.040
QM	2	NLAAAMQGL	147	7.320
QM	3	VPLTFAGKI	129	5.770
QM	4	TDDYTATGI	94	5.720

ALLELE: HLA-A*2402

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TFAGKINRL	132	1.000
ANNs+QM	2	VPLTFAGKI	129	0.890
ANNs+QM	3	LRRQAPELL	29	0.690
ANNs+QM	4	VTWPLPDRL	1	0.400

ALLELE: HLA-A3

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KVYITDDYT	90	0.810
ANNs+QM	2	VRGNLAAAM	144	0.750
ANNs+QM	3	TFAGKINRL	132	0.650
ANNs+QM	4	TATGIAGTA	98	0.410

ALLELE: HLA-A*3101

Threshold for 4 % with score: -1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NLAAAMQGL	147	-3.219
QM	2	MQGLLALPL	152	-3.219
QM	3	GLRVAVEAL	220	-3.219

ALLELE: HLA-A31

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVDVPESRI	259	0.760
ANNs+QM	2	TGIAGTAAV	100	0.630
ANNs+QM	3	VAVEALYDA	223	0.570
ANNs+QM	4	LKYPGGVVM	63	0.550

ALLELE: HLA-A*0301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	KVYITDDYT	90	0.830
ANNs+QM	2	ADDDSATGG	232	0.830
ANNs+QM	3	ASISGGAPL	39	0.750
ANNs+QM	4	AAMQGLLAL	150	0.650

ALLELE: HLA-A*3302

Threshold for 4 % with score: -0.105

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LSGTPAVDL	14	-0.693
QM	2	ASISGGAPL	39	-0.693

QM	3	QVTDGDSGL	213	-0.693

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVIIDADGA	251	2.079
QM	2	KVYITDDYT	90	1.792
QM	3	QVTDGDSGL	213	1.792
QM	4	AVDVPESRI	259	1.792

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LKYPGGVVM	63	5.704
QM	2	FLRRQAPEL	28	2.708
QM	3	NLAAAMQGL	147	2.708
QM	4	GLRVAVEAL	220	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLRRQAPEL	28	1.000
ANNs+QM	2	NLAAAMQGL	147	1.000
ANNs+QM	3	GLRVAVEAL	220	1.000
ANNs+QM	4	ASISGGAPL	39	0.970

ALLELE: HLA-B14

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AAMQGLLAL	150	1.000
ANNs+QM	2	VPESRIAEL	262	1.000
ANNs+QM	3	QGLLALPLL	153	0.980
ANNs+QM	4	FARLYAVEL	112	0.960

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRRQAPELL	29	4.094
QM	2	VRGNLAAAM	144	2.996
QM	3	MQGLLALPL	152	1.792
QM	4	VTWPLPDRL	1	0.405

ALLELE: HLA-B27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRRQAPELL	29	1.000
ANNs+QM	2	TFAGKINRL	132	0.150
ANNs+QM	3	GTAAVAVEF	104	0.120
ANNs+QM	4	KVYITDDYT	90	0.070

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRRQAPELL	29	0.970
ANNs+QM	2	TFAGKINRL	132	0.850
ANNs+QM	3	FARLYAVEL	112	0.480

ANNs+QM	4	YTATGIAGT	97	0.380

ALLELE: HLA-B*3501

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	APELLPASI	33	1.000
ANNs+QM	2	VPLTFAGKI	129	1.000
ANNs+QM	3	VPESRIAEL	262	1.000
ANNs+QM	4	LAAAMQGLL	148	0.690

ALLELE: HLA-B*3701

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDDYTATGI	94	3.689
QM	2	YEKLEGVPL	123	2.303
QM	3	TDGDSGLRV	215	2.079
QM	4	LRRQAPELL	29	1.609

ALLELE: HLA-B*3801

Threshold for 4 % with score: 0.445

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EHYEKLEGV	121	2.485
QM	2	VPESRIAEL	262	1.792
QM	3	TFAGKINRL	132	1.386
QM	4	PHGTTIVAL	55	1.099

ALLELE: HLA-B*3901

Threshold for 4 % with score: 1.792

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EHYEKLEGV	121	5.193
QM	2	PHGTTIVAL	55	2.603
QM	3	VPESRIAEL	262	2.603
QM	4	AAMQGLLAL	150	2.197

ALLELE: HLA-B*3902

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MQGLLALPL	152	3.178
QM	2	LKYPGGVVM	63	2.303
QM	3	VTWPLPDRL	1	0.875
QM	4	LAIMVRGNL	140	0.875

ALLELE: HLA-B40

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEKLEGVPL	123	2.303
QM	2	DDYTATGIA	95	1.609
QM	3	ASISGGAPL	39	1.386
QM	4	EEGYQAVGS	190	1.386

ALLELE: HLA-B*4403

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EEGYQAVGS	190	1.792
QM	2	GTAAVAVEF	104	1.504
QM	3	YEKLEGVPL	123	1.386

QM	4	DDYTATGIA	95	1.216

ALLELE: HLA-B*5101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IAGTAAVAV	102	1.000
ANNs+QM	2	VPLTFAGKI	129	1.000
ANNs+QM	3	FARLYAVEL	112	0.950
ANNs+QM	4	DPQSAGRIV	170	0.950

ALLELE: HLA-B*5102

Threshold for 4 % with score: 9.050

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPQSAGRIV	170	18.780
QM	2	VPLTFAGKI	129	13.380
QM	3	APELLPASI	33	12.900
QM	4	IAGTAAVAV	102	11.430

ALLELE: HLA-B*5103

Threshold for 4 % with score: 9.280

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPQSAGRIV	170	18.780
QM	2	VPLTFAGKI	129	13.380
QM	3	APELLPASI	33	12.900
QM	4	IAGTAAVAV	102	11.430

ALLELE: HLA-B*5201

Threshold for 4 % with score: 1.974

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPQSAGRIV	170	4.317
QM	2	VPLTFAGKI	129	3.114
QM	3	TGIAGTAAV	100	2.986
QM	4	APELLPASI	33	2.485

ALLELE: HLA-B*5301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPESRIAEL	262	1.000
ANNs+QM	2	DPQSAGRIV	170	0.970
ANNs+QM	3	VPLTFAGKI	129	0.930
ANNs+QM	4	APELLPASI	33	0.910

ALLELE: HLA-B*5401

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPQSAGRIV	170	0.980
ANNs+QM	2	APELLPASI	33	0.950
ANNs+QM	3	VPLTFAGKI	129	0.940
ANNs+QM	4	VPESRIAEL	262	0.930

ALLELE: HLA-B*51

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPLTFAGKI	129	0.990
ANNs+QM	2	VPESRIAEL	262	0.980
ANNs+QM	3	DPQSAGRIV	170	0.960

ANNs+QM	4	APELLPASI	33	0.790

ALLELE: HLA-B*5801

Threshold for 4 % with score: -0.223

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GTAAVAVEF	104	4.094
QM	2	VTWPLPDRL	1	1.887
QM	3	VAVEALYDA	223	0.971
QM	4	YTATGIAGT	97	0.875

ALLELE: HLA-B60

Threshold for 4 % with score: 1.386

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEKLEGVPL	123	5.768
QM	2	AAMQGLLAL	150	2.773
QM	3	LAIMVRGNL	140	2.175
QM	4	LSGTPAVDL	14	2.079

ALLELE: HLA-B61

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEKLEGVPL	123	2.079
QM	2	DDYTATGIA	95	1.609
QM	3	TDGDSGLRV	215	1.609
QM	4	TGIAGTAAV	100	0.693

ALLELE: HLA-B62

Threshold for 4 % with score: 0.693

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MQGLLALPL	152	2.955
QM	2	FLRRQAPEL	28	1.792
QM	3	GLRVAVEAL	220	1.792
QM	4	GTAAVAVEF	104	1.569

ALLELE: HLA-B7

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AAMQGLLAL	150	1.000
ANNs+QM	2	VPESRIAEL	262	1.000
ANNs+QM	3	ASISGGAPL	39	0.970
ANNs+QM	4	DPQSAGRIV	170	0.880

ALLELE: HLA-B*0702

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPESRIAEL	262	1.000
ANNs+QM	2	VPLTFAGKI	129	0.900
ANNs+QM	3	DPQSAGRIV	170	0.890
ANNs+QM	4	APELLPASI	33	0.870

ALLELE: HLA-B8

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LAAAMQGLL	148	0.660
ANNs+QM	2	TAAVAVEFA	105	0.650
ANNs+QM	3	KVYITDDYT	90	0.640

ANNs+QM	4	YTATGIAGT	97	0.640

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAMQGLLAL	150	3.689
QM	2	LKYPGGVVM	63	3.219
QM	3	ASISGGAPL	39	2.996
QM	4	LAIMVRGNL	140	2.996

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TFAGKINRL	132	7.370
QM	2	AAMQGLLAL	150	6.700
QM	3	VPESRIAEL	262	4.830
QM	4	VTWPLPDRL	1	4.490

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TFAGKINRL	132	2.175
QM	2	LAAAMQGLL	148	1.887
QM	3	MQGLLALPL	152	1.887
QM	4	VTWPLPDRL	1	1.792

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GTAAVAVEF	104	1.569
QM	2	LAAAMQGLL	148	0.971
QM	3	NLAAAMQGL	147	0.875
QM	4	MQGLLALPL	152	0.875

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AAMQGLLAL	150	1.000
ANNs+QM	2	VRGNLAAAM	144	0.870
ANNs+QM	3	PHGTTIVAL	55	0.790
ANNs+QM	4	IAGTAAVAV	102	0.690

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLRVAVEAL	220	15.910
QM	2	PHGTTIVAL	55	12.910
QM	3	VRGNLAAAM	144	12.860
QM	4	VPESRIAEL	262	11.830

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TFAGKINRL	132	0.970
ANNs+QM	2	ASISGGAPL	39	0.960
ANNs+QM	3	TATGIAGTA	98	0.900

ANNs+QM	4	LAAAMQGLL	148	0.820

ALLELE: H2-Kd

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRRQAPELL	29	0.980
ANNs+QM	2	VPLTFAGKI	129	0.970
ANNs+QM	3	LAIMVRGNL	140	0.950
ANNs+QM	4	ASISGGAPL	39	0.910

ALLELE: H2-Kk

Threshold for 4 % with score: 1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDDYTATGI	94	4.605
QM	2	YEKLEGVPL	123	2.996
QM	3	EEGYQAVGS	190	2.996
QM	4	APELLPASI	33	2.303

ALLELE: H2-Ld

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LSGTPAVDL	14	1.000
ANNs+QM	2	PQSAGRIVS	171	0.810
ANNs+QM	3	TFAGKINRL	132	0.760
ANNs+QM	4	ASISGGAPL	39	0.470

ALLELE: HLA-G

Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NLAAAMQGL	147	14.850
QM	2	FLRRQAPEL	28	12.180
QM	3	LSGTPAVDL	14	11.310
QM	4	GLRVAVEAL	220	10.180

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLRVAVEAL	220	6.760
QM	2	NLAAAMQGL	147	5.930
QM	3	LAIMVRGNL	140	5.150
QM	4	QVTDGDSGL	213	5.140

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QVTDGDSGL	213	7.200
QM	2	LLPASISGG	36	5.340
QM	3	EHYEKLEGV	121	5.290
QM	4	TFAGKINRL	132	4.870

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPLTFAGKI	129	15.900
QM	2	AVDVPESRI	259	12.410
QM	3	VPESRIAEL	262	11.860

QM	4	APELLPASI	33	10.470

ALLELE: Mamu-A*01

Threshold for 4 % with score: 3.650

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAMQGLLAL	150	3.720
QM	2	RAIIESRSG	272	3.350
QM	3	TGIAGTAAV	100	3.260
QM	4	AVDVPESRI	259	2.680

ALLELE: HLA-A*0204

Threshold for 4 % with score: 12.070

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLRVAVEAL	220	20.290
QM	2	FLRRQAPEL	28	17.930
QM	3	NLAAAMQGL	147	17.420
QM	4	FARLYAVEL	112	14.290

ALLELE: HLA-B*2703

Threshold for 4 % with score: 5.130

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRRQAPELL	29	8.030
QM	2	TFAGKINRL	132	4.680
QM	3	GTAAVAVEF	104	3.160
QM	4	VRGNLAAAM	144	2.070

ALLELE: HLA-B*2704

Threshold for 4 % with score: 8.790

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRRQAPELL	29	14.230
QM	2	QGLLALPLL	153	13.470
QM	3	VPESRIAEL	262	12.680
QM	4	VRGNLAAAM	144	9.660

ALLELE: HLA-B*2902

Threshold for 4 % with score: 7.750

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PHGTTIVAL	55	10.530
QM	2	LAIMVRGNL	140	9.650
QM	3	YEKLEGVPL	123	8.060
QM	4	PQSAGRIVS	171	6.980

ALLELE: HLA-A*3301

Threshold for 4 % with score: 3.840

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LAIMVRGNL	140	2.130
QM	2	LSGTPAVDL	14	1.270
QM	3	GNLAAAMQG	146	1.270
QM	4	LAAAMQGLL	148	0.540

ALLELE: HLA-B44

Threshold for 4 % with score: 4.900

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEKLEGVPL	123	10.960
QM	2	EEGYQAVGS	190	8.890
QM	3	GTAAVAVEF	104	4.650

QM	4	GLRVAVEAL	220	4.060

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ASISGGAPL	39	0.480
ANNs+QM	2	GTAAVAVEF	104	0.480
ANNs+QM	3	AVDVPESRI	259	0.460
ANNs+QM	4	ADDDSATGG	232	0.440

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VTWPLPDRL	1	0.990
ANNs+QM	2	IAGTAAVAV	102	0.990
ANNs+QM	3	TAAVAVEFA	105	0.990
ANNs+QM	4	AVIIDADGA	251	0.980