



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

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Antigen Name	Untitled
Scanned on	Tue Apr 27 00:25:38 2010
Length of input sequence	308 amino acids
Number of nonamers from input sequence	300
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	SADGECRL	86	0.930
ANNs+QM	2	VLFVAGAVL	150	0.800
ANNs+QM	3	MTALGAALT	249	0.730
ANNs+QM	4	SGDRYFGFL	183	0.300

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LLISLAAIL	38	1.000
ANNs+QM	2	PLLIVMLNL	205	1.000

ANNs+QM	3	ALGAALTVL	251	1.000
ANNs+QM	4	PFDQFMLRL	98	0.990

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FAVAFVIPA	140	1.580
ANNs+QM	2	HLTELRL	30	1.000
ANNs+QM	3	LLISLAAIL	38	1.000
ANNs+QM	4	FMLRLKVGM	102	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LLISLAAIL	38	1.000
ANNs+QM	2	ALGAALTVL	251	1.000
ANNs+QM	3	HLTELRL	30	0.990
ANNs+QM	4	GLDSLGEWL	62	0.990

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALGAALTVL	251	0.980
ANNs+QM	2	VLELAIQI	258	0.980
ANNs+QM	3	TALGAALTV	250	0.950
ANNs+QM	4	HLTELRL	30	0.920

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLTELRTL	30	1.000
ANNs+QM	2	VIPAAVLFV	145	1.000
ANNs+QM	3	PLLIVMLNL	205	1.000
ANNs+QM	4	VLLELAIQI	258	1.000

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ATMSLVDHL	23	12.180
QM	2	ALGAALTVL	251	11.920
QM	3	AFVIPAAVL	143	11.130
QM	4	LLISLAIL	38	10.470

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VLAYLVLSK	157	0.960
ANNs+QM	2	DISADGECR	84	0.910
ANNs+QM	3	VIPAAVLFV	145	0.560
ANNs+QM	4	LVLSKALGF	161	0.510

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RFAVAFVIP	139	0.840

ANNs+QM	2	FVIPAAVLF	144	0.840
ANNs+QM	3	YCALPQSAR	74	0.760
ANNs+QM	4	MTALGAALT	249	0.490

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AFVIPAAVL	143	16.290
QM	2	VLVAVAGAVL	150	8.220
QM	3	RRFAVAFVI	138	7.350
QM	4	FVIPAAVLF	144	7.080

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PFDQFMLRL	98	1.000
ANNs+QM	2	AFVIPAAVL	143	1.000
ANNs+QM	3	AYLVLSKAL	159	0.930
ANNs+QM	4	EFPLLIVML	203	0.890

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VLAYLVLSK	157	1.000
ANNs+QM	2	YCALPQSAR	74	0.990
ANNs+QM	3	RERRFAVAF	136	0.990
ANNs+QM	4	DISADGECR	84	0.800

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VLAYLVLSK	157	-0.223
QM	2	DISADGECR	84	-0.511
QM	3	YCALPQSAR	74	-1.609

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DISADGECR	84	0.910
ANNs+QM	2	RRFAVAFVI	138	0.910
ANNs+QM	3	FVIPAAVLF	144	0.850
ANNs+QM	4	VLVAVAVL	150	0.840

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LVLSKALGF	161	0.810
ANNs+QM	2	YCALPQSAR	74	0.670
ANNs+QM	3	AYLVLSKAL	159	0.640
ANNs+QM	4	VLAYLVLSK	157	0.580

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DISADGECR	84	3.807
QM	2	YCALPQSAR	74	1.099

QM	3	ISADGECRL	85	-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	DISADGECR	84	2.708
QM	2	YCALPQSAR	74	2.303
QM	3	AVAFVIPAA	141	2.079
QM	4	VLAYLVLSK	157	1.792

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YCALPQSAR	74	3.689
QM	2	DISADGECR	84	3.689
QM	3	VLAYLVLSK	157	3.401
QM	4	SMTALGAAL	248	3.219

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLTELRTSL	30	1.000
ANNs+QM	2	GLDSLGEWL	62	1.000
ANNs+QM	3	VLELAIQI	258	1.000
ANNs+QM	4	LLISLAAIL	38	0.990

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRTRLLISL	34	1.000
ANNs+QM	2	AALTVLLEL	254	1.000
ANNs+QM	3	SADGECRL	86	0.970
ANNs+QM	4	RAAGLLKRL	2	0.940

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRFAVAFVI	138	6.802
QM	2	LRTRLLISL	34	4.094
QM	3	RERRFAVAF	136	2.197
QM	4	VLFVAGAVL	150	1.504

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRFAVAFVI	138	1.000
ANNs+QM	2	LRTRLLISL	34	0.390
ANNs+QM	3	RFAVAFVIP	139	0.150
ANNs+QM	4	LIFAMFVFA	229	0.110

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRTRLLISL	34	1.000
ANNs+QM	2	RRFAVAFVI	138	0.930
ANNs+QM	3	RTRLLISLA	35	0.900

ANNs+QM	4	YCALPQSAR	74	0.810
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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	YCALPQSAR	74	0.950
ANNs+QM	2	RRFAVAFVI	138	0.720
ANNs+QM	3	EFPLLIVML	203	0.650
ANNs+QM	4	LFVAGAVLA	151	0.530

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GDRYFGFLL	184	5.298
QM	2	SDPFSMTAL	244	3.689
QM	3	SADGECRLL	86	1.609
QM	4	LSKALGFLL	163	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SADGECRLL	86	1.792
QM	2	GLDSLGEWL	62	1.361
QM	3	SGDRYFGFL	183	1.099
QM	4	RAAGLLKRL	2	0.956

ALLELE: HLA-B*3901				
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Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRTRLLISL	34	3.114
QM	2	RRFAVAFVI	138	2.303
QM	3	ATMSLVDHL	23	2.197
QM	4	GLDSLGEWL	62	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RAAGLLKRL	2	0.875
QM	2	ATMSLVDHL	23	0.875
QM	3	HLTELRTSL	30	0.875
QM	4	LRTRLLISL	34	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAVLFVAGA	148	1.386
QM	2	GDRYFGFLL	184	0.916
QM	3	SDPFSMTAL	244	0.916
QM	4	ATMSLVDHL	23	0.693

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RERRFAVAF	136	4.094
QM	2	FVIPAAVLF	144	0.811
QM	3	SDPFSMTAL	244	0.405

QM	4	ATMSLVDHL	23	0.182
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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	TALGAALTV	250	1.000
ANNs+QM	2	EFPLLIVML	203	0.980
ANNs+QM	3	AALTVLLEL	254	0.800
ANNs+QM	4	YCALPQSAR	74	0.780

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TALGAALTV	250	14.390
QM	2	VIPAAVLV	145	9.620
QM	3	AALTVLLEL	254	8.600
QM	4	SADGECRL	86	6.580

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TALGAALTV	250	14.390
QM	2	VIPAAVLV	145	9.620
QM	3	AALTVLLEL	254	8.600
QM	4	SADGECRL	86	6.580

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	VGMAAGIVL	108	3.296
QM	2	VLVAGAVL	150	3.296
QM	3	RRFAVAFVI	138	3.178
QM	4	VIPAAVLFV	145	2.785

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RERRFAVAF	136	1.000
ANNs+QM	2	FVIPAAVLF	144	0.540
ANNs+QM	3	YCALPQSAR	74	0.530
ANNs+QM	4	AFVIPAAVL	143	0.480

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FVIPAAVLF	144	0.790
ANNs+QM	2	FAVAFVIPA	140	0.620
ANNs+QM	3	VIPAAVLFV	145	0.540
ANNs+QM	4	RERRFAVAF	136	0.440

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YCALPQSAR	74	0.910
ANNs+QM	2	TALGAALTV	250	0.730
ANNs+QM	3	RAAGLLKRL	2	0.660

ANNs+QM	4	VAGAVLAYL	153	0.660
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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	RTRLLISLA	35	2.380
QM	2	RAAGLLKRL	2	1.782
QM	3	ATMSLVDHL	23	1.281
QM	4	ISADGECRL	85	1.194

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GDRYFGFLL	184	2.996
QM	2	SDPFSMTAL	244	2.996
QM	3	LGAALTVLL	252	2.868
QM	4	AALTVLLEL	254	2.868

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TALGAALTV	250	0.693
QM	2	RTRLLISLA	35	0.095
QM	3	GDRYFGFLL	184	0.095

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLRLKVGMA	103	1.792
QM	2	ALGAALTVL	251	1.664
QM	3	VLLELAIQI	258	1.664
QM	4	LLISLAAIL	38	1.386

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RERRFAVAF	136	1.000
ANNs+QM	2	FVIPAAVLF	144	1.000
ANNs+QM	3	GDRYFGFLL	184	1.000
ANNs+QM	4	ALGAALTVL	251	1.000

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FVIPAAVLF	144	0.630
ANNs+QM	2	VIPAAVLFV	145	0.580
ANNs+QM	3	SADGECRLL	86	0.520
ANNs+QM	4	LSKALGFLL	163	0.500

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HDKRKAKRE	270	1.000
ANNs+QM	2	VIPAAVLFV	145	0.750
ANNs+QM	3	VDHLTELRT	28	0.730

ANNs+QM	4	TALGAALTV	250	0.670
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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	AALTVLLEL	254	3.689
QM	2	FVIPAAVLF	144	3.219
QM	3	AYLVLSKAL	159	3.178
QM	4	ATMSLVDHL	23	2.996

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PFDQFMLRL	98	12.840
QM	2	VNPDATMSL	19	10.220
QM	3	ISADGECRL	85	10.160
QM	4	SADGECRL	86	8.900

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RAAGLLKRL	2	2.676
QM	2	LRTRLLISL	34	2.580
QM	3	ATMSLVDHL	23	2.485
QM	4	EFPLLIVML	203	2.485

ALLELE: HLA-Cw*0702				
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Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDPFSMTAL	244	1.751
QM	2	RAAGLLKRL	2	1.664
QM	3	VAGAVLAYL	153	1.664
QM	4	LRTRLLISL	34	1.569

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SADGECRLL	86	0.890
ANNs+QM	2	RAAGLLKRL	2	0.860
ANNs+QM	3	SDPFSMTAL	244	0.840
ANNs+QM	4	VAGAVLAYL	153	0.780

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VNPDATMSL	19	21.420
QM	2	RERRFAVAF	136	16.530
QM	3	SGDRYFGFL	183	15.600
QM	4	SMTALGAAL	248	14.930

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SADGECRLL	86	1.000
ANNs+QM	2	RAAGLLKRL	2	0.980
ANNs+QM	3	AYLVLSKAL	159	0.970

ANNs+QM	4	TALGAALTV	250	0.880
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFVIPAAVL	143	1.000
ANNs+QM	2	AYLVLSKAL	159	0.990
ANNs+QM	3	ATMSLVDHL	23	0.980
ANNs+QM	4	SADGECRL	86	0.970

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VLLELAIQI	258	2.708
QM	2	VDHLTELRT	28	1.792
QM	3	RERRFAVAF	136	1.609
QM	4	GDRYFGFLL	184	1.386

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ISADGECRL	85	0.780
ANNs+QM	2	LIFAMFVFA	229	0.620
ANNs+QM	3	PFDQFMLRL	98	0.610
ANNs+QM	4	EFPLLIVML	203	0.430

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VIPAAVLV	145	19.060
QM	2	ALGAALTVL	251	16.180
QM	3	HLTELRL	30	14.510
QM	4	LLISLAAIL	38	13.510

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LLISLAAIL	38	8.690
QM	2	LRTRLLISL	34	7.000
QM	3	SMTALGAAL	248	6.970
QM	4	GLDSLGEWL	62	6.760

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMTALGAAL	248	6.540
QM	2	RAAGLLKRL	2	5.160
QM	3	LRTRLLISL	34	3.890
QM	4	SDPFSMTAL	244	3.340

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LVLKALGF	161	8.290
QM	2	AALTVLLEL	254	8.150
QM	3	AYLVLSKAL	159	7.730

QM	4	RRFAVAFVI	138	7.630
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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	VNPDATMSL	19	3.610
QM	2	SADGECRL	86	2.820
QM	3	FAVAFVIPA	140	2.160
QM	4	SGDRYFGFL	183	1.510

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VLFVAGAVL	150	23.060
QM	2	VAGAVLAYL	153	15.580
QM	3	ALGAALTVL	251	15.520
QM	4	GLDSLGEWL	62	14.320

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRTRLLISL	34	5.910
QM	2	HLTELRTLL	30	3.300
QM	3	RRFAVAFVI	138	3.070
QM	4	SDPFSMTAL	244	2.690

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	AYLVLSKAL	159	13.600
QM	2	RAAGLLKRL	2	13.560
QM	3	LRTRLLISL	34	13.310
QM	4	SDPFSMTAL	244	12.260

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDPFSMTAL	244	6.750
QM	2	RERRFAVAF	136	5.580
QM	3	FVIPAAVLF	144	4.930
QM	4	ALGAALTVL	251	4.930

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LSKALGFLL	163	3.190
QM	2	AVAFVIPAA	141	2.990
QM	3	FVIPAAVLF	144	1.590
QM	4	LIFAMFVFA	229	1.430

ALLELE: HLA-B*44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMTALGAAL	248	5.530
QM	2	GLDSLGEWL	62	5.290
QM	3	RERRFAVAF	136	5.250

QM	4	AAVLFVAGA	148	4.110
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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	YCALPQSAR	74	0.950
ANNs+QM	2	AVAFVIPAA	141	0.950
ANNs+QM	3	FVIPAAVLF	144	0.650
ANNs+QM	4	RAAGLLKRL	2	0.530

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RTRLLISLA	35	1.000
ANNs+QM	2	ATMSLVDHL	23	0.980
ANNs+QM	3	SADGECRL	86	0.980
ANNs+QM	4	VGMAAGIVL	108	0.980