



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

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Antigen Name	Untitled
Scanned on	Fri Mar 26 00:23:49 2010
Length of input sequence	577 amino acids
Number of nonamers from input sequence	569
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	VADVAGVQV	242	1.000
ANNs+QM	2	AAIDTCLAV	234	0.830
ANNs+QM	3	AVFGGGKVL	47	0.450
ANNs+QM	4	SLDGWPNF	190	0.440

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLARMLESL	183	1.000
ANNs+QM	2	AAIDTCLAV	234	1.000

ANNs+QM	3	VLPRPMFGA	481	1.000
ANNs+QM	4	SLDGWPVNF	190	0.780

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLARMLESL	183	1.000
ANNs+QM	2	AAIDTCLAV	234	1.000
ANNs+QM	3	VLPRPMFGA	481	1.000
ANNs+QM	4	AVNRGLAPV	516	0.970

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLARMLESL	183	1.000
ANNs+QM	2	AAIDTCLAV	234	0.990
ANNs+QM	3	SLDGWPVNF	190	0.980
ANNs+QM	4	VLPRPMFGA	481	0.970

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SLDGWPVNF	190	0.990
ANNs+QM	2	RLADRLAVN	510	0.950
ANNs+QM	3	AVNRGLAPV	516	0.940
ANNs+QM	4	VLPRPMFGA	481	0.900

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AAIDTCLAV	234	1.000
ANNs+QM	2	AVNRGLAPV	516	1.000
ANNs+QM	3	LICPQIIVE	144	0.990
ANNs+QM	4	VLPRPMFGA	481	0.980

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDARLADRL	507	13.530
QM	2	AVNRGLAPV	516	8.400
QM	3	TDLPLNDAL	533	8.190
QM	4	AVGKTDLPL	529	8.090

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VADVRAVGK	524	0.920
ANNs+QM	2	SMGQGRASR	58	0.740
ANNs+QM	3	GLAPVADVR	520	0.420
ANNs+QM	4	AVGKTDLPL	529	0.410

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAPVADVR	520	1.000

ANNs+QM	2	LADRLAVNR	511	0.920
ANNs+QM	3	VADVRAVGK	524	0.900
ANNs+QM	4	GSTPAAIDT	230	0.800

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	APQSIDARL	503	9.580
QM	2	GWPVNFALL	193	9.260
QM	3	CPQIIVEAL	146	9.020
QM	4	AVGKTDLPL	529	9.000

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GWPVNFALL	193	0.970
ANNs+QM	2	SLDGWPVNF	190	0.810
ANNs+QM	3	APQSIDARL	503	0.580
ANNs+QM	4	LNPRIPEDL	329	0.310

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PMFGAAAAT	485	0.990
ANNs+QM	2	MFGAAAATA	486	0.950
ANNs+QM	3	SMGQGRASR	58	0.940
ANNs+QM	4	PRPMFGAAA	483	0.940

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMGQGRASR	58	0.693
QM	2	GLAPVADVR	520	0.693
QM	3	LADRLAVNR	511	-1.609

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLAPVADVR	520	0.990
ANNs+QM	2	CGGPGLAGD	37	0.830
ANNs+QM	3	DVRAVGKTD	526	0.800
ANNs+QM	4	VADVRAVGK	524	0.780

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AIAWAAMGD	462	0.930
ANNs+QM	2	AVFGGGKVL	47	0.800
ANNs+QM	3	AVGKTDLPL	529	0.800
ANNs+QM	4	ALWEQLRGG	211	0.740

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMGQGRASR	58	2.708
QM	2	GLAPVADVR	520	2.197

QM	3	LADRLAVNR	511	1.099
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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	GLAPVADVR	520	2.708
QM	2	AVGKTDLPL	529	2.485
QM	3	SMGQGRASR	58	2.303
QM	4	TVNTLDEHL	312	2.197

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMGQGRASR	58	5.298
QM	2	GLAPVADVR	520	4.787
QM	3	LKGGAIAWA	458	4.605
QM	4	LADRLAVNR	511	3.689

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLARMLSL	183	1.000
ANNs+QM	2	GEWHLARML	180	0.980
ANNs+QM	3	ALWEQLRGG	211	0.980
ANNs+QM	4	SLDGWPVNF	190	0.970

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DRLAVNRGL	513	0.970
ANNs+QM	2	HAPDIITVA	287	0.860
ANNs+QM	3	RLADRLAVN	510	0.830
ANNs+QM	4	DRCGGPGLA	35	0.770

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DRCGGPGLA	35	1.792
QM	2	DRLAVNRGL	513	1.686
QM	3	GLAGDEAVF	41	1.099
QM	4	SLDGWPVNF	190	1.099

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DRLAVNRGL	513	1.000
ANNs+QM	2	DHLIGSVEV	428	0.930
ANNs+QM	3	DRCGGPGLA	35	0.660
ANNs+QM	4	NRGLAPVAD	518	0.400

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DRLAVNRGL	513	1.000
ANNs+QM	2	NRGLAPVAD	518	0.900
ANNs+QM	3	DHLIGSVEV	428	0.850

ANNs+QM	4	DRCGGPGLA	35	0.590
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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	CPQIIVEAL	146	1.000
ANNs+QM	2	NPDALWEQL	208	1.000
ANNs+QM	3	TPAAIDTCL	232	1.000
ANNs+QM	4	APQSIDARL	503	1.000

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEWHLARML	180	3.912
QM	2	EDRCGGPGL	34	3.689
QM	3	IDARLADRL	507	3.689
QM	4	TDLPLNDAL	533	3.689

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NPDALWEQL	208	2.054
QM	2	SLDGWPVNF	190	1.792
QM	3	DHLIGSVEV	428	1.792
QM	4	CPQIIVEAL	146	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	DHLIGSVEV	428	4.094
QM	2	DRLAVNRGL	513	3.401
QM	3	NPDALWEQL	208	2.197
QM	4	AVFGGGKVL	47	1.792

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	CPQIIVEAL	146	0.875
QM	2	HLARMLESL	183	0.875
QM	3	NPDALWEQL	208	0.875
QM	4	TPAAIDTCL	232	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEWHLARML	180	4.382
QM	2	TEGAGGGHA	280	2.996
QM	3	TDLPLNDAL	533	2.303
QM	4	IDARLADRL	507	1.609

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEWHLARML	180	1.792
QM	2	TEGAGGGHA	280	1.386
QM	3	TDLPLNDAL	533	0.693

QM	4	STIAAEDVL	347	0.405
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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	IGIRDGRIV	91	1.000
ANNs+QM	2	AAIDTCLAV	234	1.000
ANNs+QM	3	VADVAGVQV	242	1.000
ANNs+QM	4	CPQIIVEAL	146	0.980

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VADVAGVQV	242	14.950
QM	2	IGIRDGRIV	91	14.800
QM	3	AAIDTCLAV	234	13.870
QM	4	CPQIIVEAL	146	12.100

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VADVAGVQV	242	14.950
QM	2	IGIRDGRIV	91	14.800
QM	3	AAIDTCLAV	234	13.870
QM	4	CPQIIVEAL	146	12.100

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	IGIRDGRIV	91	5.011
QM	2	AVFGGGKVL	47	2.803
QM	3	YGPTTGDR I	13	2.708
QM	4	FGVRPHVVL	450	2.303

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CPQIIVEAL	146	1.000
ANNs+QM	2	NPDALWEQL	208	1.000
ANNs+QM	3	FGVRPHVVL	450	1.000
ANNs+QM	4	LPRPMFGAA	482	1.000

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LPRPMFGAA	482	1.000
ANNs+QM	2	NPDIMTGVH	106	0.990
ANNs+QM	3	NPDALWEQL	208	0.990
ANNs+QM	4	APQSIDARL	503	0.970

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	NPDIMTGVH	106	1.000
ANNs+QM	2	LPRPMFGAA	482	0.990
ANNs+QM	3	CPQIIVEAL	146	0.980

ANNs+QM	4	APQSIDARL	503	0.950
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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	GSVEVGKLA	432	1.792
QM	2	GSTPAAIDT	230	1.386
QM	3	STIAAEDVL	347	0.693
QM	4	HAPDIITVA	287	0.588

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEWHLARML	180	5.170
QM	2	IDARLADRL	507	3.879
QM	3	TDLPLNDAL	533	3.784
QM	4	EDRCGGPGL	34	2.996

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEGAGGGHA	280	2.996
QM	2	GEWHLARML	180	2.868
QM	3	IGIRDGRIV	91	0.693
QM	4	AAIDTCLAV	234	0.693

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLAGDEAVF	41	3.273
QM	2	SLDGWPVNF	190	2.850
QM	3	HLARMLESL	183	0.693
QM	4	VLPRPMFGA	481	0.693

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CPQIIVEAL	146	1.000
ANNs+QM	2	TPAAIDTCL	232	1.000
ANNs+QM	3	APQSIDARL	503	1.000
ANNs+QM	4	NPDALWEQL	208	0.950

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CPQIIVEAL	146	1.000
ANNs+QM	2	TPAAIDTCL	232	1.000
ANNs+QM	3	FGVRPHVVL	450	1.000
ANNs+QM	4	LPRPMFGAA	482	1.000

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VADVRAVGK	524	1.000
ANNs+QM	2	STIAAEDVL	347	0.740
ANNs+QM	3	NPDIMTGVH	106	0.690

ANNs+QM	4	YGPTTGDR	13	0.660
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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	TDLPLNDAL	533	4.605
QM	2	DRLAVNRGL	513	3.689
QM	3	FGVRPHVVL	450	3.401
QM	4	GWPVNFALL	193	2.485

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	STIAAEDVL	347	10.490
QM	2	CPQIIVEAL	146	7.370
QM	3	NPDALWEQL	208	6.840
QM	4	AVFGGGKVL	47	5.580

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	CPQIIVEAL	146	2.580
QM	2	HLARMLESL	183	2.485
QM	3	GEWHLARML	180	1.887
QM	4	NPDALWEQL	208	1.887

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	CPQIIVEAL	146	2.156
QM	2	TPAAIDTCL	232	1.974
QM	3	HLARMLESL	183	1.569
QM	4	IDARLADRL	507	1.569

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GWPVNFALL	193	1.000
ANNs+QM	2	TDLPLNDAL	533	0.980
ANNs+QM	3	MFGAAAATA	486	0.940
ANNs+QM	4	EDRCGGPGL	34	0.840

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GWPVNFALL	193	19.750
QM	2	MGRVGEVVL	371	19.600
QM	3	YGPTTGDRl	13	17.350
QM	4	FGVRPHVVL	450	14.600

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GWPVNFALL	193	1.000
ANNs+QM	2	NPDALWEQL	208	0.950
ANNs+QM	3	PQSIDARLA	504	0.950

ANNs+QM	4	GEWHLARML	180	0.910
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EDRCGGPGL	34	0.980
ANNs+QM	2	STIAAEDVL	347	0.980
ANNs+QM	3	GWPVNFALL	193	0.970
ANNs+QM	4	DRLAVNRGL	513	0.970

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEWHLARML	180	3.689
QM	2	TEGAGGGHA	280	2.996
QM	3	EDRCGGPGL	34	2.773
QM	4	TDLPLNDAL	533	2.773

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CPQIIVEAL	146	1.000
ANNs+QM	2	NPDALWEQL	208	1.000
ANNs+QM	3	TPAAIDTCL	232	1.000
ANNs+QM	4	APQSIDARL	503	0.850

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GWPVNFALL	193	12.840
QM	2	GGPGLAGDE	38	11.730
QM	3	VLPRPMFGA	481	9.460
QM	4	TVNTLDEHL	312	8.780

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DRLAVNRGL	513	11.960
QM	2	TPAAIDTCL	232	11.470
QM	3	HLARMLESL	183	10.960
QM	4	LNPRIPEDL	329	9.300

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PRPMFGAAA	483	6.340
QM	2	RPHVVLKGG	453	4.960
QM	3	NRGLAPVAD	518	4.000
QM	4	DRCGGPGLA	35	3.860

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NPDALWEQL	208	15.810
QM	2	TPAAIDTCL	232	13.780
QM	3	CPQIIVEAL	146	12.600

QM	4	APQSIDARL	503	11.130
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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	CPQIIVEAL	146	10.740
QM	2	GWPVNFALL	193	4.490
QM	3	AAIDTCLAV	234	4.190
QM	4	APQSIDARL	503	3.080

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLAPVADVR	520	17.400
QM	2	RLADRLAVN	510	16.500
QM	3	HLARMLESL	183	14.350
QM	4	SLDGWPNF	190	13.840

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLAGDEAVF	41	8.420
QM	2	DRCGGPGLA	35	4.910
QM	3	NRGLAPVAD	518	4.800
QM	4	PRPMFGAAA	483	4.780

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	NRGLAPVAD	518	12.790
QM	2	APQSIDARL	503	11.720
QM	3	DRLAVNRGL	513	9.550
QM	4	PTTGDRIRL	15	8.210

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEWHLARML	180	9.610
QM	2	SMGQGRASR	58	9.380
QM	3	TEGAGGGHA	280	8.790
QM	4	TIIGGGTGP	160	8.510

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LADRLAVNR	511	4.840
QM	2	AVNRGLAPV	516	4.240
QM	3	LICPQIIVE	144	2.770
QM	4	GLAPVADVR	520	2.150

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SMGQGRASR	58	6.770
QM	2	LKGGAIAWA	458	5.200
QM	3	TEGAGGGHA	280	5.100

QM	4	SLDGWPVNF	190	4.950
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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	GLAPVADV	520	0.980
ANNs+QM	2	AVFGGGKVL	47	0.940
ANNs+QM	3	PMFGAAAAT	485	0.880
ANNs+QM	4	VADVRAVGK	524	0.860

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTCLAVADV	237	1.000
ANNs+QM	2	STIAAEDVL	347	1.000
ANNs+QM	3	AAIDTCLAV	234	0.980
ANNs+QM	4	CPQIIVEAL	146	0.960