



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

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Antigen Name	Untitled
Scanned on	Fri Feb 19 20:03:32 2010
Length of input sequence	288 amino acids
Number of nonamers from input sequence	280
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	GADSVALVL	98	0.820
ANNs+QM	2	QPDGLAQAF	82	0.610
ANNs+QM	3	QSISGGAIF	124	0.430
ANNs+QM	4	ITMGISKQL	17	0.260

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLLGDGAHL	63	1.000
ANNs+QM	2	GTFDSLLDA	224	0.890

ANNs+QM	3	GADSVLVL	98	0.840
ANNs+QM	4	ATQDQPDGL	78	0.430

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GADSVLVL	98	0.950
ANNs+QM	2	HIGADSVL	96	0.820
ANNs+QM	3	RLLGDGAHL	63	0.570
ANNs+QM	4	AFVIGANHI	89	0.200

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ITMGISKQL	17	0.840
ANNs+QM	2	RLLGDGAHL	63	0.810
ANNs+QM	3	AFVIGANHI	89	0.440
ANNs+QM	4	ANHIGADSV	94	0.350

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YGPGLGTSL	112	0.980
ANNs+QM	2	RLLGDGAHL	63	0.950
ANNs+QM	3	GTFDSLLDA	224	0.710
ANNs+QM	4	GADSVLVL	98	0.480

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DVIEIARGL	178	0.970
ANNs+QM	2	FYDNDVIEI	174	0.420
ANNs+QM	3	ATQDQPDGL	78	0.400
ANNs+QM	4	IDDEQLVQR	260	0.210

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ATQDQPDGL	78	10.170
QM	2	DVIEIARGL	178	6.750
QM	3	DTGTFDSLL	222	5.920
QM	4	DAPGFHRL	57	5.770

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IDDEQLVQR	260	0.360
ANNs+QM	2	FYDNDVIEI	174	0.260
ANNs+QM	3	DAPGFHRL	57	0.230
ANNs+QM	4	DTGTFDSLL	222	0.230

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVEVLARGT	210	0.830

ANNs+QM	2	FVIGANHIG	90	0.790
ANNs+QM	3	IDDEQLVQR	260	0.410
ANNs+QM	4	ITEVNQVYL	196	0.400

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DVIEIARGL	178	12.090
QM	2	AFVIGANHI	89	10.540
QM	3	DGLAQAFVI	84	7.900
QM	4	ATQDQPDGL	78	7.140

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EFGAEGMAL	146	1.000
ANNs+QM	2	FYDNDVIEI	174	0.990
ANNs+QM	3	DAPGFHRL	57	0.960
ANNs+QM	4	ATQDQPDGL	78	0.820

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QVYLNQGRL	201	0.930
ANNs+QM	2	DEQLVQRAR	262	0.740
ANNs+QM	3	DAPGFHRL	57	0.600
ANNs+QM	4	FVIGANHIG	90	0.450

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLLGDGAHL	63	-2.120
QM	2	GTFDSLLDA	224	-2.120
QM	3	QVYLNQGRL	201	-2.813

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IDDEQLVQR	260	0.660
ANNs+QM	2	GTFDSLLDA	224	0.600
ANNs+QM	3	SAYGVVEFG	140	0.310
ANNs+QM	4	QSISGGAIF	124	0.280

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AWLDTGTFD	219	0.970
ANNs+QM	2	ANHIGADSV	94	0.460
ANNs+QM	3	QVYLNQGRL	201	0.440
ANNs+QM	4	AFVIGANHI	89	0.430

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DVIEIARGL	178	0.405
QM	2	DEQLVQRAR	262	-0.105

QM	3	HIGADSVL	96	-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	DVIEIARGL	178	3.178
QM	2	DTGTFDSSL	222	2.197
QM	3	DEQLVQRAR	262	1.504
QM	4	VVEFGAEGM	144	1.386

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLLGDGAHL	63	2.708
QM	2	ANHIGADSV	94	1.792
QM	3	ITMGISKQL	17	1.609
QM	4	DAPGFHRL	57	1.609

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DVIEIARGL	178	0.970
ANNs+QM	2	DAPGFHRL	57	0.960
ANNs+QM	3	GADSVLVL	98	0.950
ANNs+QM	4	VVEFGAEGM	144	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	DAPGFHRL	57	0.970
ANNs+QM	2	QVYLNQGRL	201	0.940
ANNs+QM	3	ANHIGADSV	94	0.920
ANNs+QM	4	GADSVLVL	98	0.900

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLLGDGAHL	63	0.993
QM	2	QVYLNQGRL	201	0.405
QM	3	QPDGLAQAF	82	0.000

ALLELE: HLA-B*27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FYDNDVIEI	174	0.400
ANNs+QM	2	DTGTFDSL	222	0.170
ANNs+QM	3	DAPGFHRL	57	0.100
ANNs+QM	4	RLLGDGAHL	63	0.100

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FYDNDVIEI	174	0.330
ANNs+QM	2	RLLGDGAHL	63	0.270
ANNs+QM	3	AFVIGANHI	89	0.230

ANNs+QM	4	FHRLLDGGA	61	0.130
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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	QPDGLAQAF	82	1.000
ANNs+QM	2	AFVIGANHI	89	0.340
ANNs+QM	3	GADSVLVL	98	0.140
ANNs+QM	4	FYDNDVIEI	174	0.110

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LDTGTFDL	221	3.689
QM	2	YDNDVIEIA	175	1.792
QM	3	DAPGFHRL	57	1.609
QM	4	DTGTFDL	222	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QPDGLAQAF	82	2.747
QM	2	GADSVLVL	98	1.361
QM	3	ITEVNQVYL	196	1.281
QM	4	ITMGISKQL	17	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	DVIEIARGL	178	2.485
QM	2	GADSVALVL	98	2.197
QM	3	ITEVNQVYL	196	2.197
QM	4	ITMGISKQL	17	1.792

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ITMGISKQL	17	0.875
QM	2	DAPGFHRL	57	0.875
QM	3	GADSVALVL	98	0.875
QM	4	YGPGLGTSL	112	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GTFDSLLDA	224	1.386
QM	2	YDNDVIEIA	175	0.916
QM	3	LDTGTFDSL	221	0.916

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QSISGGAIF	124	1.609
QM	2	QPDGLAQAF	82	0.811
QM	3	DEQLVQRAR	262	0.588

QM	4	DGLAQAFVI	84	0.300
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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	DAPGFHRLI	57	0.900
ANNs+QM	2	GADSVLV	98	0.780
ANNs+QM	3	QPDGLAQAF	82	0.770
ANNs+QM	4	DGLAQAFVI	84	0.770

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGLAQAFVI	84	12.250
QM	2	GADSVLV	98	8.340
QM	3	YGPGLGTSL	112	7.570
QM	4	QPDGLAQAF	82	7.150

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGLAQAFVI	84	12.250
QM	2	QPDGLAQAF	82	12.150
QM	3	GADSVLV	98	8.340
QM	4	YGPGLGTSL	112	7.570

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	DGLAQAFVI	84	4.787
QM	2	QSISGGAIF	124	2.708
QM	3	QPDGLAQAF	82	2.398
QM	4	GADSVALVL	98	2.079

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPDGLAQAF	82	1.000
ANNs+QM	2	DAPGFHRL	57	0.610
ANNs+QM	3	QSISGGAIF	124	0.470
ANNs+QM	4	ANHIGADSV	94	0.300

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPDGLAQAF	82	1.000
ANNs+QM	2	DAPGFHRL	57	0.380
ANNs+QM	3	GADSVALVL	98	0.320
ANNs+QM	4	DTGTFDSL	222	0.240

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DAPGFHRL	57	0.890
ANNs+QM	2	DTGTFDSL	222	0.890
ANNs+QM	3	GADSVALVL	98	0.860

ANNs+QM	4	DVIEIARGL	178	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	QSISGGAIF	124	3.689
QM	2	ITMGISKQL	17	1.504
QM	3	QPDGLAQAF	82	1.194
QM	4	ITEVNQVYL	196	1.099

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LDTGTFDSL	221	2.996
QM	2	ITMGISKQL	17	2.270
QM	3	GADSVALVL	98	2.175
QM	4	ITEVNQVYL	196	2.079

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDNDVIEIA	175	1.609
QM	2	LDTGTFDSL	221	0.693
QM	3	GTFDSLDA	224	0.501

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLLGDGAHL	63	0.875
QM	2	QSIGGAIF	124	0.693
QM	3	QPDGLAQAF	82	0.365
QM	4	HIGADSVAL	96	0.182

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPDGLAQAF	82	1.000
ANNs+QM	2	DAPGFHRL	57	0.970
ANNs+QM	3	DVIEIARGL	178	0.910
ANNs+QM	4	QSIGGAIF	124	0.880

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QPDGLAQAF	82	0.840
ANNs+QM	2	DAPGFHRL	57	0.780
ANNs+QM	3	GADSVALVL	98	0.210
ANNs+QM	4	DTGTFDSSL	222	0.210

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DAPGFHRL	57	0.670
ANNs+QM	2	GADSVALVL	98	0.610
ANNs+QM	3	QGRLAVEVL	206	0.590

ANNs+QM	4	DTGTFDSLL	222	0.590
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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	DVIEIARGL	178	3.401
QM	2	ITMGISKQL	17	3.178
QM	3	QVYLNQGRL	201	3.178
QM	4	RLLGDGAHL	63	2.996

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EFGAEGMAL	146	13.370
QM	2	QPDGLAQAF	82	7.170
QM	3	QGRlavevl	206	6.250
QM	4	QSISGGAIF	124	3.850

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ITMGISKQL	17	1.982
QM	2	DAPGFHRLl	57	1.982
QM	3	YGPGLGTSL	112	1.887
QM	4	DVIEIARGL	178	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	QPDGLAQAF	82	1.974
QM	2	DAPGFHRL	57	0.971
QM	3	YGPGLGTSL	112	0.971
QM	4	YDNDVIEIA	175	0.902

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ITEVNQVYL	196	1.000
ANNs+QM	2	EFGAEGMAL	146	0.830
ANNs+QM	3	DAPGFHRL	57	0.650
ANNs+QM	4	QVYLNQGR	201	0.510

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YGPGLGTSL	112	21.260
QM	2	DGLAQAFVI	84	13.420
QM	3	QGRlavevl	206	12.940
QM	4	ITEVNQVYL	196	12.050

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DAPGFHRL	57	1.000
ANNs+QM	2	DTGTFDSSL	222	1.000
ANNs+QM	3	YGPGLGTSL	112	0.930

ANNs+QM	4	GADSVLV	98	0.810
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFVIGANHI	89	1.000
ANNs+QM	2	DAPGFHRL	57	0.990
ANNs+QM	3	YGPGLGTSL	112	0.990
ANNs+QM	4	FYDNDVIEI	174	0.990

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGLAQAFVI	84	2.303
QM	2	AFVIGANHI	89	2.303
QM	3	FYDNDVIEI	174	2.015
QM	4	YDNDVIEIA	175	1.386

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DAPGFHRL	57	0.940
ANNs+QM	2	QSISGGAIF	124	0.600
ANNs+QM	3	QPDGLAQAF	82	0.500
ANNs+QM	4	YGPGLGTSL	112	0.390

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YGPGLGTSL	112	13.840
QM	2	DAPGFHRL	57	13.510
QM	3	HIGADSVL	96	12.980
QM	4	RLLGDGAHL	63	12.370

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DVIEIARGL	178	10.900
QM	2	RLLGDGAHL	63	6.670
QM	3	DEQLVQRAR	262	5.750
QM	4	DGLAQAFVI	84	5.410

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EFGAEGMAL	146	8.010
QM	2	FHRLLDGA	61	6.670
QM	3	ITMGISKQL	17	5.200
QM	4	DAPGFHRL	57	4.860

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QPDGLAQAF	82	11.440
QM	2	RLLGDGAHL	63	10.060
QM	3	DVIEIARGL	178	7.880

QM	4	GADSVLV	98	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	DAPGFHRL	57	9.400
QM	2	QVYLNQGR	201	4.450
QM	3	DVIEIARGL	178	4.170
QM	4	FYDNDVIEI	174	3.430

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GADSVLV	98	17.000
QM	2	RLLGDGAHL	63	15.600
QM	3	DAPGFHRL	57	12.370
QM	4	ITEVNQVYL	196	10.290

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FYDNDVIEI	174	3.830
QM	2	RLLGDGAHL	63	2.830
QM	3	SAYGVVEFG	140	2.730
QM	4	HIGADSVLV	96	1.370

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	HIGADSVAL	96	10.340
QM	2	QVYLNQGR	201	10.050
QM	3	RLLGDGAHL	63	9.940
QM	4	YGPGLGTSL	112	7.640

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SAYGVVEFG	140	11.600
QM	2	YGPGLGTSL	112	9.130
QM	3	DEQLVQRAR	262	8.800
QM	4	QDQPDGLAQ	80	6.510

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GTFDSLLDA	224	2.740
QM	2	IDDEQLVQR	260	1.870
QM	3	ITMGISKQL	17	0.460
QM	4	DAPGFHRL	57	0.270

ALLELE: HLA-B*44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DEQLVQRAR	262	4.750
QM	2	QGRLAVEVL	206	3.860
QM	3	EFGAEGMAL	146	2.520

QM	4	QPDGLAQAF	82	2.430
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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	FVIGANHIG	90	0.930
ANNs+QM	2	DEQLVQRAR	262	0.800
ANNs+QM	3	ITMGISKQL	17	0.790
ANNs+QM	4	IDDEQLVQR	260	0.550

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SAYGVVEFG	140	0.990
ANNs+QM	2	DVIEIARGL	178	0.990
ANNs+QM	3	QGRlavevl	206	0.990
ANNs+QM	4	FHRLlGDGA	61	0.930