



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

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Antigen Name	Untitled
Scanned on	Sun Mar 7 00:16:00 2010
Length of input sequence	247 amino acids
Number of nonamers from input sequence	239
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	VTDEVIYEL	196	1.000
ANNs+QM	2	YVDIYAASV	212	0.900
ANNs+QM	3	KTGLARLAL	132	0.460
ANNs+QM	4	FMGPLFTLL	10	0.430

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMGPLFTLL	10	1.000
ANNs+QM	2	ILASNHLAV	36	1.000

ANNs+QM	3	RLYKGKTGL	127	0.950
ANNs+QM	4	VTDEVIYEL	196	0.750

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMGPLFTLL	10	1.000
ANNs+QM	2	ILASNHLAV	36	1.000
ANNs+QM	3	ALQTAVVLL	100	1.000
ANNs+QM	4	YVDIYAASV	212	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILASNHLAV	36	1.000
ANNs+QM	2	ALQTAVVLL	100	0.990
ANNs+QM	3	YVDIYAASV	212	0.890
ANNs+QM	4	RLYKGKTGL	127	0.870

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLYKGKTGL	127	0.990
ANNs+QM	2	FMGPLFTLL	10	0.960
ANNs+QM	3	VLLGQGKLL	106	0.960
ANNs+QM	4	SGPAILASN	32	0.350

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILASNHLAV	36	1.000
ANNs+QM	2	VLLGQGKLL	106	0.990
ANNs+QM	3	YVDIYAASV	212	0.960
ANNs+QM	4	FMGPLFTLL	10	0.780

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ALQTAVVLL	100	11.050
QM	2	RLYKGKTGL	127	8.880
QM	3	KTGLARLAL	132	8.190
QM	4	KGKTGLARL	130	7.680

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MDFSRFEGE	178	0.520
ANNs+QM	2	ILASNHLAV	36	0.450
ANNs+QM	3	DSAQGALQT	95	0.360
ANNs+QM	4	GALQTAVVL	99	0.210

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILASNHLAV	36	0.610

ANNs+QM	2	RTNADSAQG	91	0.430
ANNs+QM	3	GALQTAVVL	99	0.320
ANNs+QM	4	ALQTAVVLL	100	0.300

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GALQTAVVL	99	8.780
QM	2	FMGPLFTLL	10	8.110
QM	3	ALQTAVVLL	100	7.080
QM	4	RLYKGKTGL	127	6.510

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLYKGKTGL	127	0.480
ANNs+QM	2	VLLGQGKLL	106	0.470
ANNs+QM	3	ALQTAVVLL	100	0.450
ANNs+QM	4	VNPPGRKML	157	0.370

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DIYAASVKD	214	0.810
ANNs+QM	2	ILASNHLAV	36	0.560
ANNs+QM	3	KTGLARLAL	132	0.330
ANNs+QM	4	RTNADSAQG	91	0.290

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLYKGKTGL	127	-1.715
QM	2	VTDEVIYEL	196	-2.303
QM	3	KTGLARLAL	132	-2.813

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLYKGKTGL	127	0.730
ANNs+QM	2	VTDEVIYEL	196	0.530
ANNs+QM	3	KGKTGLARL	130	0.460
ANNs+QM	4	PNSTDAARI	233	0.380

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GALQTAVVL	99	0.910
ANNs+QM	2	ALQTAVVLL	100	0.820
ANNs+QM	3	ILASNHLAV	36	0.710
ANNs+QM	4	VLLGQGKLL	106	0.640

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DSAQGALQT	95	0.405
QM	2	FMGPLFTLL	10	-0.693

QM	3	YVDIYAASV	212	-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	YVDIYAASV	212	1.386
QM	2	KTGLARLAL	132	0.693
QM	3	DSAQGALQT	95	0.588

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	3.219
QM	2	ALQTAVVLL	100	2.708
QM	3	VLLGQGKLL	106	2.708
QM	4	RLYKGBTGL	127	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMGPLFTLL	10	1.000
ANNs+QM	2	VLLGQGKLL	106	1.000
ANNs+QM	3	ILASNHLAV	36	0.990
ANNs+QM	4	ALQTAVVLL	100	0.990

ALLELE: HLA-B14				
Threshold for 4 % with score: 4				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VTDEVIYEL	196	0.950
ANNs+QM	2	GALQTAVVL	99	0.940
ANNs+QM	3	RLYKGKTGL	127	0.840
ANNs+QM	4	PAILASNHL	34	0.810

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLYKGKTGL	127	2.603
QM	2	FMGPLFTLL	10	0.405
QM	3	ALQTAVVLL	100	-0.105

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLYKGKTGL	127	0.710
ANNs+QM	2	GALQTAVVL	99	0.200
ANNs+QM	3	RTNADSAQG	91	0.100
ANNs+QM	4	DSAQGALQT	95	0.040

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLYKGKTGL	127	0.960
ANNs+QM	2	GALQTAVVL	99	0.670
ANNs+QM	3	PAILASNHL	34	0.600
ANNs+QM	4	KTGLARLAL	132	0.310

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	1.000
ANNs+QM	2	GALQTAVVL	99	0.490
ANNs+QM	3	NADSAQGAL	93	0.140
ANNs+QM	4	PAILASNHL	34	0.090

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MDFSRFEGE	178	3.689
QM	2	FMGPLFTLL	10	1.609
QM	3	ALQTAVVLL	100	1.609
QM	4	VLLGQGKLL	106	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTDEVIYEL	196	2.054
QM	2	NADSAQGAL	93	1.361
QM	3	IPSSGPAIL	29	0.693
QM	4	VLLGQGKLL	106	0.693

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score

QM	1	VTDEVIYEL	196	3.296
QM	2	NADSAQGAL	93	2.197
QM	3	GALQTAVVL	99	1.792
QM	4	VLLGQGKLL	106	1.792

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	0.875
QM	2	VTDEVIYEL	196	0.875
QM	3	IPSSGPAIL	29	0.693
QM	4	NADSAQGAL	93	0.693

ALLELE: HLA-B40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MDFSRFEGL	178	2.303
QM	2	GALQTAVVL	99	0.693
QM	3	LEYIPSSGP	26	0.182

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DSAQGALQT	95	-0.105
QM	2	LEYIPSSGP	26	-0.511
QM	3	MDFSRFEGL	178	-0.693

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PAILASNHL	34	0.920
ANNs+QM	2	GALQTAVVL	99	0.840
ANNs+QM	3	NADSAQGAL	93	0.820
ANNs+QM	4	IPSSGPAIL	29	0.550

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GALQTAVVL	99	10.690
QM	2	IPSSGPAIL	29	7.370
QM	3	NADSAQGAL	93	6.410
QM	4	VNPPGRKML	157	5.280

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GALQTAVVL	99	10.690
QM	2	IPSSGPAIL	29	7.370
QM	3	NADSAQGAL	93	6.410
QM	4	VNPPGRKML	157	5.280

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPSSGPAIL	29	3.114

QM	2	GALQTAVVL	99	1.792
QM	3	VNPPGRKML	157	1.271
QM	4	YVDIYAASV	212	0.875

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	1.000
ANNs+QM	2	ILASNHLAV	36	0.390
ANNs+QM	3	FMGPLFTLL	10	0.300
ANNs+QM	4	VNPPGRKML	157	0.170

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	1.000
ANNs+QM	2	ILASNHLAV	36	0.450
ANNs+QM	3	PNSTDAARI	233	0.290
ANNs+QM	4	NADSAQGAL	93	0.270

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	0.980
ANNs+QM	2	NADSAQGAL	93	0.910
ANNs+QM	3	VNPPGRKML	157	0.840
ANNs+QM	4	PILASNHL	34	0.830

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTDEVIYEL	196	2.165
QM	2	KTGLARLAL	132	1.887
QM	3	NADSAQGAL	93	0.095

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MDFSRFEGE	178	2.996
QM	2	GALQTAVVL	99	2.773
QM	3	VTDEVIYEL	196	2.175
QM	4	IPSSGPAIL	29	2.079

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MDFSRFEGE	178	1.099
QM	2	LEYIPSSGP	26	-0.223
QM	3	VTDEVIYEL	196	-0.511

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ILASNHLAV	36	1.138
QM	2	ALQTAVVLL	100	0.875
QM	3	VLLGQGKLL	106	0.875

QM	4	RLYKGKTGL	127	0.875
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ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	1.000
ANNs+QM	2	RLYKGKTGL	127	0.780
ANNs+QM	3	VNPPGRKML	157	0.560
ANNs+QM	4	VTDEVIYEL	196	0.400

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	1.000
ANNs+QM	2	ILASNHLAV	36	0.690
ANNs+QM	3	VNPPGRKML	157	0.470
ANNs+QM	4	FMGPLFTLL	10	0.420

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VNPPGRKML	157	0.670
ANNs+QM	2	DSAQGALQT	95	0.640
ANNs+QM	3	KTGLARLAL	132	0.630
ANNs+QM	4	RLYKGKTGL	127	0.620

ALLELE: HLA-Cw*0301				
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Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	3.912
QM	2	GALQTAVVL	99	3.689
QM	3	MDFSRFEGL	178	3.401
QM	4	VLLGQGKLL	106	3.178

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPSSGPAIL	29	8.030
QM	2	VNPPGRKML	157	6.430
QM	3	VTDEVIYEL	196	5.350
QM	4	VLLGQGKLL	106	4.370

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	1.887
QM	2	KGKTGLARL	130	1.482
QM	3	ALQTAVVLL	100	1.386
QM	4	VTDEVIYEL	196	1.386

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	1.212
QM	2	VTDEVIYEL	196	1.058
QM	3	IPSSGPAIL	29	0.588

QM	4	VNPPGRKML	157	0.519
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ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMGPLFTLL	10	1.000
ANNs+QM	2	GALQTAVVL	99	0.950
ANNs+QM	3	VNPPGRKML	157	0.690
ANNs+QM	4	NADSAQGAL	93	0.680

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SGPAILASN	32	18.060
QM	2	VNPPGRKML	157	17.420
QM	3	KGKTGLARL	130	15.930
QM	4	KTGLARLAL	132	13.250

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FMGPLFTLL	10	1.000
ANNs+QM	2	NADSAQGAL	93	0.960
ANNs+QM	3	IPSSGPAIL	29	0.900
ANNs+QM	4	GALQTAVVL	99	0.830

ALLELE: H2-Kd				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLYKGKTGL	127	0.980
ANNs+QM	2	IPSSGPAIL	29	0.960
ANNs+QM	3	FMGPLFTLL	10	0.930
ANNs+QM	4	VNPPGRKML	157	0.920

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MDFSRFEGL	178	1.386
QM	2	LEYIPSSGP	26	0.000
QM	3	FMGPLFTLL	10	-0.511

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPSSGPAIL	29	1.000
ANNs+QM	2	VNPPGRKML	157	0.900
ANNs+QM	3	DSAQGALQT	95	0.860
ANNs+QM	4	RLYKGKTGL	127	0.760

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ALQTAVVLL	100	19.380
QM	2	RLYKGKTGL	127	17.040
QM	3	KGKTGLARL	130	12.440

QM	4	FMGPLFTLL	10	11.450
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ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	7.470
QM	2	RLYKGKTGL	127	6.760
QM	3	MDFSRFEGL	178	6.470
QM	4	IPSSGPAIL	29	4.470

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPSSGPAIL	29	3.040
QM	2	RLYKGKTGL	127	2.600
QM	3	PAILASNHL	34	2.000
QM	4	SGPAILASN	32	1.630

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MDFSRFEGL	178	10.430
QM	2	PAILASNHL	34	8.960
QM	3	IPSSGPAIL	29	7.790
QM	4	NADSAQGAL	93	7.590

ALLELE: Mamu-A*01				
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Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YVDIYAASV	212	6.100
QM	2	SGPAILASN	32	3.610
QM	3	VNPPGRKML	157	1.360
QM	4	FMGPLFTLL	10	1.320

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VLLGQGKLL	106	21.460
QM	2	GALQTAVVL	99	17.260
QM	3	RLYKGKTGL	127	17.040
QM	4	ALQTAVVLL	100	16.670

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VTDEVIYEL	196	4.370
QM	2	RLYKGKTGL	127	2.230
QM	3	FMGPLFTLL	10	-0.440

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTGLARLAL	132	10.550
QM	2	MDFSRFEGL	178	8.920
QM	3	IPSSGPAIL	29	8.130

QM	4	SGPAILASN	32	7.390
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ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTGLARLAL	132	9.600
QM	2	FMGPLFTLL	10	6.670
QM	3	RLYKGKTGL	127	5.650
QM	4	PNSTDAARI	233	4.310

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FMGPLFTLL	10	2.020
QM	2	ILASNHLAV	36	1.430
QM	3	RTNADSAQG	91	1.100

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTGLARLAL	132	4.670
QM	2	GALQTAVVL	99	4.390
QM	3	ALQTAVVLL	100	1.270
QM	4	NADSAQGAL	93	1.210

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RTNADSAQG	91	0.820
ANNs+QM	2	NADSAQGAL	93	0.740
ANNs+QM	3	ILASNHLAV	36	0.680
ANNs+QM	4	DIYAASVKD	214	0.310

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALQTAVVLL	100	0.990
ANNs+QM	2	YVDIYAASV	212	0.990
ANNs+QM	3	KTGLARLAL	132	0.970
ANNs+QM	4	VNPPGRKML	157	0.890