



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

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Antigen Name	Untitled
Scanned on	Mon Mar 22 23:47:21 2010
Length of input sequence	524 amino acids
Number of nonamers from input sequence	516
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	ISAGGTSTA	388	0.470
ANNs+QM	2	IPLVPAAVV	193	0.420
ANNs+QM	3	SFHLIIAVA	56	0.410
ANNs+QM	4	AIIGEELGL	315	0.390

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLSSLAADV	236	1.000
ANNs+QM	2	RLLTATTTL	353	1.000

ANNs+QM	3	PLRVFLSSL	232	0.980
ANNs+QM	4	HLIIVAAL	58	0.950

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SAAILAVSA	246	1.610
ANNs+QM	2	HLIIVAAL	58	1.000
ANNs+QM	3	TTLGLIMVL	68	1.000
ANNs+QM	4	VLSASAVRS	75	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WVIFGKQVL	91	2.910
ANNs+QM	2	LIIVAALL	59	1.000
ANNs+QM	3	FLSSLAAVV	236	1.000
ANNs+QM	4	AIIGEELGL	315	1.000

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLSSLAAVV	236	0.990
ANNs+QM	2	ALLTTLGLI	65	0.980
ANNs+QM	3	AFSGFAITI	123	0.980
ANNs+QM	4	AVAALLTTL	62	0.970

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVVALALIV	199	1.000
ANNs+QM	2	TSFHLIIAV	55	0.890
ANNs+QM	3	AGLPLRVFL	229	0.790
ANNs+QM	4	FLSSLAAVV	236	0.640

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVAALLTTL	62	13.300
QM	2	LVPAAVVAL	195	13.180
QM	3	HLIIAVAL	58	12.350
QM	4	AGLPLRVFL	229	11.950

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PMTSFHLII	53	0.680
ANNs+QM	2	SSLAAVVVS	238	0.640
ANNs+QM	3	GTSTAATLS	392	0.590
ANNs+QM	4	ALLTTLGLI	65	0.540

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVVALALIV	199	0.860

ANNs+QM	2	LVPAAVVAL	195	0.830
ANNs+QM	3	EPEAVAALR	412	0.760
ANNs+QM	4	IIANAARHE	404	0.740

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HLIIVAAL	58	10.130
QM	2	IFAIIGEEL	313	9.510
QM	3	IGLLPVTGL	375	9.120
QM	4	TIVMLVLVL	130	9.070

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFSGFAITI	123	1.000
ANNs+QM	2	GYQARQAKF	275	1.000
ANNs+QM	3	IFAIIGEEL	313	1.000
ANNs+QM	4	PMTSFHLII	53	0.930

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RVFLSSLAA	234	0.950
ANNs+QM	2	TSFHLIIAV	55	0.850
ANNs+QM	3	ARHEPEAVA	409	0.780
ANNs+QM	4	AFSGFAITI	123	0.680

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RVFLSSLAA	234	-1.022
QM	2	TIVMLVLVL	130	-1.833
QM	3	RLLTATTTL	353	-2.120

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EPEAVAALR	412	0.880
ANNs+QM	2	SGFAITVM	125	0.800
ANNs+QM	3	LIIVAALL	59	0.570
ANNs+QM	4	FGKQVLWTL	94	0.540

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLSSLAAVV	236	1.000
ANNs+QM	2	ALLTTLGLI	65	0.980
ANNs+QM	3	AFSGFAITI	123	0.970
ANNs+QM	4	QARQAKFAL	277	0.790

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPEAVAALR	412	2.197
QM	2	EMLIPLVPA	190	0.405

QM	3	TSFHLIIAV	55	-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	EPEAVAALR	412	2.708
QM	2	AVAALLTTL	62	2.079
QM	3	WVIFGKQVL	91	2.079
QM	4	AVVALALIV	199	2.079

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPEAVAALR	412	3.689
QM	2	HLIIVAAL	58	2.708
QM	3	RLLTATTTL	353	2.708
QM	4	LLPVTGLQL	377	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALLTTLGLI	65	1.000
ANNs+QM	2	LLPVTGLQL	377	1.000
ANNs+QM	3	HLIIVAAL	58	0.990
ANNs+QM	4	LIIAVAALL	59	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	ERASLREML	184	1.000
ANNs+QM	2	SFHLLIAVA	56	0.970
ANNs+QM	3	VGALGLLGL	324	0.970
ANNs+QM	4	TATTTLWVL	356	0.940

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRVFLSSLA	233	2.996
QM	2	ARHEPEAVA	409	2.996
QM	3	ERASLREML	184	2.890
QM	4	RLLTATTTL	353	0.993

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRVFLSSLA	233	0.940
ANNs+QM	2	ERASLREML	184	0.550
ANNs+QM	3	GFAITIVML	126	0.540
ANNs+QM	4	SSLAADVVS	238	0.480

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LRVFLSSLA	233	1.000
ANNs+QM	2	GFAITIVML	126	0.880
ANNs+QM	3	ERASLREML	184	0.780

ANNs+QM	4	TSFHLLIAV	55	0.760
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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	IPLVPAAVV	193	0.950
ANNs+QM	2	EPEAVAALR	412	0.880
ANNs+QM	3	TATTTLWVL	356	0.780
ANNs+QM	4	LRVFLSSLA	233	0.730

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EELGLVGAL	319	2.303
QM	2	HEPEAVAAL	411	2.303
QM	3	LIIAVAALL	59	2.015
QM	4	ALLTTLGLI	65	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FHLIIAVAA	57	1.361
QM	2	TTLGLIMVL	68	0.956
QM	3	IFAIIGEEL	313	0.956
QM	4	GYQARQAKF	275	0.875

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	HLIIAVAAL	58	2.197
QM	2	TTLGLIMVL	68	2.197
QM	3	TIVMLVLVL	130	2.197
QM	4	IGLLPVTGL	375	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MQPSELAKM	160	2.303
QM	2	LIIVAALL	59	0.875
QM	3	AVAALLTTL	62	0.875
QM	4	TTLGLIMVL	68	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EELGLVGAL	319	3.689
QM	2	GEELGLVGA	318	2.996
QM	3	HEPEAVAAL	411	2.996
QM	4	AGLPLRVFL	229	1.386

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EELGLVGAL	319	3.584
QM	2	HEPEAVAAL	411	2.890
QM	3	GEELGLVGA	318	1.792

QM	4	SSLAAVVVS	238	0.588
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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	IPLVPAAVV	193	1.000
ANNs+QM	2	VALALIVAQ	201	0.810
ANNs+QM	3	FAIWGAHLL	170	0.800
ANNs+QM	4	QARQAKFAL	277	0.710

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPLVPAAVV	193	14.240
QM	2	AARHEPEAV	408	11.130
QM	3	VALALIVAQ	201	9.870
QM	4	AVVALALIV	199	8.500

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IPLVPAAVV	193	14.240
QM	2	AARHEPEAV	408	11.130
QM	3	VALALIVAQ	201	9.870
QM	4	AVVALALIV	199	8.500

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	SGFAITIVM	125	5.288
QM	2	IPLVPAAVV	193	5.193
QM	3	LSSLAAVVV	237	3.296
QM	4	AVVALALIV	199	3.178

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPLVPAAVV	193	1.000
ANNs+QM	2	PMTSFHLII	53	0.820
ANNs+QM	3	EPEAVAALR	412	0.730
ANNs+QM	4	ASRSADPFL	344	0.560

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	IPLVPAAVV	193	1.000
ANNs+QM	2	EPEAVAALR	412	0.860
ANNs+QM	3	FLSSLAAVV	236	0.820
ANNs+QM	4	PMTSFHLII	53	0.500

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FGKQVLWTL	94	1.000
ANNs+QM	2	FAIWGAHLL	170	1.000
ANNs+QM	3	IPLVPAAVV	193	0.990

ANNs+QM	4	TATTTLWVL	356	0.900
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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	TTLGLIMVL	68	1.376
QM	2	TSFHLLIAV	55	1.281
QM	3	ISAGGTSTA	388	1.194
QM	4	TSTAATLSL	393	0.788

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EELGLVGAL	319	5.864
QM	2	HEPEAVAAL	411	5.075
QM	3	TTLGLIMVL	68	2.868
QM	4	AGLPLRVFL	229	2.868

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEELGLVGA	318	3.091
QM	2	EELGLVGAL	319	2.773
QM	3	HEPEAVAAL	411	2.079
QM	4	TSFHLLIAV	55	1.792

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLIPLVPAA	191	1.569
QM	2	SLAAVVVSA	239	1.569
QM	3	FLSSLAAVV	236	1.482
QM	4	MQPSELAKM	160	1.386

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVAALLTTL	62	1.000
ANNs+QM	2	IPLVPAAVV	193	1.000
ANNs+QM	3	LVPAAVVAL	195	1.000
ANNs+QM	4	GYQARQAKF	275	1.000

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FGKQVLWTL	94	1.000
ANNs+QM	2	IPLVPAAVV	193	1.000
ANNs+QM	3	EPEAVAALR	412	0.990
ANNs+QM	4	LIIAVAALL	59	0.880

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FGKQVLWTL	94	1.000
ANNs+QM	2	GTSTAATLS	392	0.690
ANNs+QM	3	TATTTLWVL	356	0.680

ANNs+QM	4	GFAITIVML	126	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	AGLPLRVFL	229	3.912
QM	2	FAIWGAHLL	170	3.689
QM	3	TTLGLIMVL	68	3.178
QM	4	RLLTATTTL	353	3.178

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QARQAKFAL	277	9.370
QM	2	IFAIIGEEL	313	8.640
QM	3	HLIIVAAL	58	7.760
QM	4	HEPEAVAAL	411	7.760

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AVAALLTTL	62	2.485
QM	2	TTLGLIMVL	68	2.485
QM	3	TIVMLVLVL	130	2.485
QM	4	EELGLVGAL	319	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	AVAALLTTL	62	1.569
QM	2	ERASLREML	184	1.569
QM	3	LVPAAVVAL	195	1.058
QM	4	IFAIIGEEL	313	1.058

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WVIFGKQVL	91	1.000
ANNs+QM	2	FAIWGAHLL	170	1.000
ANNs+QM	3	QARQAKFAL	277	0.890
ANNs+QM	4	QGGIFGDGL	287	0.870

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AGLPLRVFL	229	20.380
QM	2	HEPEVAAL	411	20.310
QM	3	GYQARQAKF	275	19.540
QM	4	GGTSTAATL	391	19.130

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AFSGFAITI	123	1.000
ANNs+QM	2	PAAVVALAL	197	0.960
ANNs+QM	3	ASRSADPFL	344	0.940

ANNs+QM	4	GFAITIVML	126	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	AFSGFAITI	123	1.000
ANNs+QM	2	GFSMQPSEL	157	1.000
ANNs+QM	3	IFAIIGEEL	313	1.000
ANNs+QM	4	ERASLREML	184	0.990

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EELGLVGAL	319	4.382
QM	2	GEELGLVGA	318	2.996
QM	3	HEPEAVAAL	411	2.996
QM	4	ALLTTLGLI	65	1.609

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TSTAATLSL	393	1.000
ANNs+QM	2	QARQAKFAL	277	0.640
ANNs+QM	3	ASRSADPFL	344	0.560
ANNs+QM	4	PMTSFHLII	53	0.540

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LVPAAVVAL	195	18.710
QM	2	RLLTATTTL	353	17.040
QM	3	AVAALLTTL	62	14.780
QM	4	LIIAVAALL	59	14.110

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FAIWGAHLL	170	10.070
QM	2	IGLLPVTGL	375	6.380
QM	3	HLIIVAAL	58	6.360
QM	4	PAAVVALAL	197	6.220

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QGGIFGDGL	287	7.670
QM	2	RAGRDDKVN	420	7.400
QM	3	ARHEPEAVA	409	6.600
QM	4	SFHIIAVA	56	6.000

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PLRVFLSSL	232	11.300
QM	2	GYQARQAKF	275	8.930
QM	3	AVVVSAAIL	242	8.830

QM	4	IPLVPAAVV	193	8.250
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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	TVSMGIILL	215	8.180
QM	2	TSFHLIIAV	55	4.450
QM	3	FAIWGAHLL	170	3.560
QM	4	LVPAAVVAL	195	3.530

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HLIIAVAAL	58	17.790
QM	2	GFAITIVML	126	17.430
QM	3	FLSSLAAVV	236	16.730
QM	4	RLLTATTTL	353	16.520

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARHEPEAVA	409	10.110
QM	2	ERASLREML	184	4.850
QM	3	LRVFLSSLA	233	3.770
QM	4	AIIGEELGL	315	3.060

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	ERASLREML	184	13.440
QM	2	GYQARQAKF	275	12.930
QM	3	LRVFLSSLA	233	11.650
QM	4	AVAALLTTL	62	11.460

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HEPEAVAAL	411	15.980
QM	2	EELGLVGAL	319	15.270
QM	3	GEELGLVGA	318	9.110
QM	4	EAVAALRAG	414	7.080

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MLIPLVPAA	191	4.710
QM	2	IIANAARHE	404	3.780
QM	3	LIIVAALL	59	3.380
QM	4	FGKQVLWTL	94	1.500

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EELGLVGAL	319	12.980
QM	2	GEELGLVGA	318	9.230
QM	3	HEPEAVAAL	411	8.450

QM	4	GYQARQAKF	275	6.350
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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	RVFLSSLAA	234	0.930
ANNs+QM	2	EAVAALRAG	414	0.870
ANNs+QM	3	AVAALLTTL	62	0.760
ANNs+QM	4	AFSGFAITI	123	0.750

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	HLIIVAAL	58	1.000
ANNs+QM	2	GFAITIVML	126	1.000
ANNs+QM	3	ERASLREML	184	1.000
ANNs+QM	4	QARQAKFAL	277	0.990