



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

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Antigen Name	Untitled
Scanned on	Tue Jan 26 23:53:42 2010
Length of input sequence	250 amino acids
Number of nonamers from input sequence	242
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	AADAARATY	135	0.990
ANNS+QM	2	LAAVAPAVF	219	0.620
ANNS+QM	3	HADVEIRRL	203	0.550
ANNS+QM	4	YSELLAKLE	143	0.390

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LAIECLRQL	211	0.700
ANNS+QM	2	QLAAVAPAV	218	0.700
ANNS+QM	3	FADFEVTTL	227	0.630
ANNS+QM	4	DDADLRHIL	124	0.310

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				



Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	QLIAKTDFL	10	1.000
ANNS+QM	2	QLAAVAPAV	218	1.000
ANNS+QM	3	CLRQLAAVA	215	0.890
ANNS+QM	4	FADFEVTTL	227	0.850

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	IDVGHFSVL	65	8.330
ANNS+QM	2	QLIAKTDFL	10	0.990
ANNS+QM	3	CLRQLAAVA	215	0.990
ANNS+QM	4	QLAAVAPAV	218	0.990

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	CLRQLAAVA	215	0.980
ANNS+QM	2	QLAAVAPAV	218	0.980
ANNS+QM	3	LLAKLEAKF	146	0.950
ANNS+QM	4	TYSELLAKL	142	0.660

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	QLIAKTDFL	10	1.000
ANNS+QM	2	QLAAVAPAV	218	0.970
ANNS+QM	3	LAAVAPAVF	219	0.080
ANNS+QM	4	IRRLAIECL	208	0.050

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DDADLRHIL	124	10.450



QM	2	QLAAVAPAV	218	8.290
QM	3	QLIAKTDFL	10	8.260
QM	4	TDADGGPAL	27	7.630

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TTLADGTEV	233	0.860
ANNS+QM	2	AVLPNATET	173	0.850
ANNS+QM	3	LTEAADAAR	132	0.740
ANNS+QM	4	AADAARATY	135	0.490

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LTEAADAAR	132	1.000
ANNS+QM	2	AVLPNATET	173	0.950
ANNS+QM	3	RKQARQAAR	164	0.940
ANNS+QM	4	AADAARATY	135	0.880

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDVGHFVSL	65	9.500
QM	2	LAAVAPAVF	219	8.880
QM	3	ARQAARAVL	167	8.660
QM	4	TYSELLAKL	142	5.460

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TYSELLAKL	142	0.990
ANNS+QM	2	LLAKLEAKF	146	0.930
ANNS+QM	3	LAAVAPAVF	219	0.700

ANNs+QM	4	PWTTDADGG	24	0.170
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ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AADAARATY	135	0.990
ANNs+QM	2	RKQARQAAR	164	0.990
ANNs+QM	3	CLRQLAAVA	215	0.990
ANNs+QM	4	TYSELLAKL	142	0.820

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LTEAADAAR	132	0.000
QM	2	RKQARQAAR	164	-2.813
QM	3	QLIAKTDFL	10	-3.219

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPDVPWTTD	20	0.750
ANNs+QM	2	LTEAADAAR	132	0.750
ANNs+QM	3	LLAKLEAKF	146	0.740
ANNs+QM	4	TTDADGGPA	26	0.630

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVLPNATET	173	0.920
ANNs+QM	2	AADAARATY	135	0.870
ANNs+QM	3	ADAARATYS	136	0.780
ANNs+QM	4	CLRQLAAVA	215	0.770

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LTEADAAR	132	1.099
QM	2	DLRHILTEA	127	-0.105
QM	3	HILTEAADA	130	-0.693

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LTEADAAR	132	4.317
QM	2	AVLPNATET	173	2.485
QM	3	TTLADGTEV	233	0.693

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RKQARQAAR	164	8.294
QM	2	LTEADAAR	132	3.689
QM	3	QLIAKTDFL	10	2.708
QM	4	LLAKLEAKF	146	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	QLAAVAPAV	218	1.000
ANNS+QM	2	ARATYSELL	139	0.970
ANNS+QM	3	QLIAKTDFL	10	0.960
ANNS+QM	4	CLRQLAAVA	215	0.960

ALLELE: HLA-B14				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score

ANNs+QM	1	ARATYSELL	139	1.000
ANNs+QM	2	ARQAARAVL	167	1.000
ANNs+QM	3	IRRLAIECL	208	1.000
ANNs+QM	4	AADAARATY	135	0.930

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARATYSELL	139	4.094
QM	2	ARQAARAVL	167	4.094
QM	3	IRRLAIECL	208	4.094
QM	4	LRRKQARQA	162	1.792

ALLELE: HLA-B*27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARATYSELL	139	1.000
ANNs+QM	2	IRRLAIECL	208	0.860
ANNs+QM	3	LRRKQARQA	162	0.680
ANNs+QM	4	LRQLAAVAP	216	0.350

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ARATYSELL	139	1.000
ANNs+QM	2	ARQAARAVL	167	1.000
ANNs+QM	3	IRRLAIECL	208	1.000
ANNs+QM	4	LRRKQARQA	162	0.880

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PPDVPWTTD	20	0.890
ANNs+QM	2	RKQARQAAR	164	0.550

ANNs+QM	3	AADAARATY	135	0.530
ANNs+QM	4	LAAVAPAVF	219	0.520

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDADGGPAL	27	3.689
QM	2	IDVGHFSVL	65	3.689
QM	3	DDADLRHIL	124	3.689
QM	4	QLIAKTDFL	10	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TYSELLAKL	142	1.831
QM	2	HADVEIRRL	203	1.099
QM	3	FADFEVTTL	227	1.099
QM	4	LAIECLRQL	211	0.693

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LAIECLRQL	211	2.890
QM	2	ARATYSELL	139	2.708
QM	3	HADVEIRRL	203	2.603
QM	4	FADFEVTTL	227	2.603

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARATYSELL	139	0.875
QM	2	TYSELLAKL	142	0.875
QM	3	QLIAKTDFL	10	0.693
QM	4	ARQAARAVL	167	0.693

ALLELE: HLA-B40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDVGHFSVL	65	2.303
QM	2	AAVAPAVFA	220	1.792
QM	3	TDADGGPAL	27	1.609
QM	4	DDADLRHIL	124	1.609

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AADAARATY	135	2.197
QM	2	ADAARATYS	136	1.504
QM	3	DDADLRHIL	124	1.099
QM	4	LAAVAPAVF	219	1.099

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	LAIECLRQL	211	0.880
ANNS+QM	2	FADFEVTTL	227	0.650
ANNS+QM	3	PPDVPWTTD	20	0.540
ANNS+QM	4	LRQLAAVAP	216	0.490

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAVAPAVFA	220	8.450
QM	2	TTLADGTEV	233	7.190
QM	3	HADVEIRRL	203	5.910
QM	4	QLAAVAPAV	218	4.990

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAVAPAVFA	220	8.450
QM	2	TTLADGTEV	233	7.190
QM	3	HADVEIRRL	203	5.910
QM	4	QLAAVAPAV	218	4.990

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LAAVAPAVF	219	2.603
QM	2	DDADLRHIL	124	1.386
QM	3	IDVGHFVSL	65	1.099
QM	4	QLAAVAPAV	218	0.875

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PPDVPWTTD	20	0.970
ANNS+QM	2	IDVGHFVSL	65	0.470
ANNS+QM	3	LAAVAPAVF	219	0.370
ANNS+QM	4	QLIAKTDFL	10	0.230

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PPDVPWTTD	20	0.970
ANNS+QM	2	TTDADGGPA	26	0.450
ANNS+QM	3	LAAVAPAVF	219	0.440
ANNS+QM	4	CLRQLAAVA	215	0.430

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LAAVAPAVF	219	0.360
ANNs+QM	2	PPDVPWTTD	20	0.340
ANNs+QM	3	LAIECLRQL	211	0.310
ANNs+QM	4	QLIAKTDFL	10	0.290

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LAAVAPAVF	219	2.996
QM	2	AADAARATY	135	1.289
QM	3	LAIECLRQL	211	0.875
QM	4	TTDADGGPA	26	0.788

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DDADLRHIL	124	3.784
QM	2	TDADGGPAL	27	3.689
QM	3	IDVGHFVSL	65	3.689
QM	4	LAIECLRQL	211	2.175

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDADGGPAL	27	0.693
QM	2	IDVGHFVSL	65	0.693
QM	3	DDADLRHIL	124	0.693
QM	4	TTLADGTEV	233	0.693

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LLAKLEAKF	146	3.689

QM	2	DLRHILTEA	127	2.667
QM	3	CLRQLAAVA	215	2.580
QM	4	QLAAVAPAV	218	1.386

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ARQAARAVL	167	1.000
ANNS+QM	2	AADAARATY	135	0.940
ANNS+QM	3	PPDVPWTTD	20	0.930
ANNS+QM	4	AETAPLRVQ	2	0.870

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PPDVPWTTD	20	0.970
ANNS+QM	2	LAAVAPAVF	219	0.750
ANNS+QM	3	ARATYSELL	139	0.320
ANNS+QM	4	TTDADGGPA	26	0.300

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	QLIAKTDFL	10	0.680
ANNS+QM	2	LAAVAPAVF	219	0.660
ANNS+QM	3	AADAARATY	135	0.640
ANNS+QM	4	LLAKLEAKF	146	0.630

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDVGHFVSL	65	4.787
QM	2	LAIECLRQL	211	4.094
QM	3	QLIAKTDFL	10	2.996

QM	4	AVLPNATET	173	1.792
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ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QLIAKTDLFL	10	10.490
QM	2	HADVEIRRL	203	8.900
QM	3	TDADGGPAL	27	6.040
QM	4	FADFEVTTL	227	4.780

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TYSELLAKL	142	2.485
QM	2	DDADLRHIL	124	1.792
QM	3	HADVEIRRL	203	1.577
QM	4	IRRLAIECL	208	1.577

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TYSELLAKL	142	2.156
QM	2	DDADLRHIL	124	1.905
QM	3	LLAKLEAKF	146	1.569
QM	4	AADAARATY	135	1.482

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TDADGGPAL	27	0.980
ANNS+QM	2	FADFEVTTL	227	0.970
ANNS+QM	3	TYSELLAKL	142	0.540
ANNS+QM	4	AADAARATY	135	0.490

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARQAARAVL	167	13.220
QM	2	DDADLRHIL	124	12.580
QM	3	RKQARQAAR	164	11.200
QM	4	TYSELLAKL	142	9.470

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	FADFEVTTL	227	1.000
ANNS+QM	2	HADVEIRRL	203	0.990
ANNS+QM	3	ARATYSELL	139	0.980
ANNS+QM	4	PPDVPWTTD	20	0.960

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	TYSELLAKL	142	1.000
ANNS+QM	2	ARATYSELL	139	0.980
ANNS+QM	3	ARQAARAVL	167	0.830
ANNS+QM	4	LAIECLRQL	211	0.730

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DDADLRHIL	124	2.773
QM	2	TDADGGPAL	27	2.079
QM	3	IDVGHFVSL	65	1.386
QM	4	ADAARATYS	136	0.693

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	IDVGHFSVL	65	0.640
ANNS+QM	2	ARQAARAVL	167	0.600
ANNS+QM	3	PPDVPWTTD	20	0.550
ANNS+QM	4	LAAVAPAVF	219	0.530

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARQAARAVL	167	11.440
QM	2	FADFEVTTL	227	10.780
QM	3	ARATYSELL	139	8.780
QM	4	VVPPGMEDD	117	8.730

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DDADLRHIL	124	13.470
QM	2	TDADGGPAL	27	6.140
QM	3	LAIECLRQL	211	5.260
QM	4	TYSELLAKL	142	2.600

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IRRLAIECL	208	6.000
QM	2	QLIAKTDLF	10	4.670
QM	3	PWTTDADGG	24	4.210
QM	4	ARATYSELL	139	1.930

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PPDVPWTTD	20	7.800
QM	2	IDVGHFVSL	65	7.600
QM	3	HADVEIRRL	203	7.490
QM	4	TYSELLAKL	142	7.180

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HADVEIRRL	203	3.490
QM	2	VVPPGMEDD	117	2.410
QM	3	LAIECLRQL	211	1.160
QM	4	ARATYSELL	139	1.110

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QLAAVAPAV	218	17.700
QM	2	FADFEVTTL	227	14.090
QM	3	LAAVAPAVF	219	11.780
QM	4	AADAARATY	135	11.770

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARATYSELL	139	7.120
QM	2	ARQAARAVL	167	5.500
QM	3	IRRLAIECL	208	4.960
QM	4	LLAKLEAKF	146	2.420

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARQAARAVL	167	18.120

QM	2	IRRLAIECL	208	16.360
QM	3	ARATYSELL	139	12.220
QM	4	RKQARQAAR	164	9.150

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PWTTDADGG	24	6.980
QM	2	TDADGGPAL	27	6.560
QM	3	LAIECLRQL	211	5.850
QM	4	AETAPLRVQ	2	3.980

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AADAARATY	135	1.880
QM	2	AVLPNATET	173	1.790
QM	3	LAIECLRQL	211	1.460
QM	4	HILTEAADA	130	1.270

ALLELE: HLA-B*44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AADAARATY	135	4.270
QM	2	ARQAARAVL	167	3.430
QM	3	AAVAPAVFA	220	2.720
QM	4	IRRLAIECL	208	2.680

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	RKQARQAAR	164	0.980
ANNS+QM	2	LTEAADAAR	132	0.910
ANNS+QM	3	AVLPNATET	173	0.890

ANNs+QM	4	QLAAVAPAV	218	0.790
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ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QLIAKTDLF	10	0.990
ANNs+QM	2	IRRLAIECL	208	0.970
ANNs+QM	3	LLAKLEAKF	146	0.950
ANNs+QM	4	LAAVAPAVF	219	0.950