



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

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Antigen Name	Untitled
Scanned on	Tue Mar 2 20:43:48 2010
Length of input sequence	214 amino acids
Number of nonamers from input sequence	206
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	CLGQAASAA	104	0.390
ANNs+QM	2	SANDIMAQL	52	0.380
ANNs+QM	3	RADIQTVCL	97	0.280
ANNs+QM	4	LFEERIIFL	36	0.260

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SANDIMAQL	52	0.780
ANNs+QM	2	AQLLVLESL	58	0.250

ANNs+QM	3	RIIFLGVQV	40	0.150
ANNs+QM	4	RADIQTVCL	97	0.130

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RADIQTVCL	97	1.000
ANNs+QM	2	AASAAVLL	108	0.970
ANNs+QM	3	CLGQAASAA	104	0.960
ANNs+QM	4	AQLLVLESL	58	0.900

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CLGQAASAA	104	0.970
ANNs+QM	2	QAASAAVL	107	0.920
ANNs+QM	3	RIIFLGVQV	40	0.820
ANNs+QM	4	GQAASAAV	106	0.750

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VCLGQAASA	103	0.820
ANNs+QM	2	RIIFLGVQV	40	0.810
ANNs+QM	3	ASAAVLLA	109	0.810
ANNs+QM	4	SANDIMAQL	52	0.770

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DIMAQLLVL	55	1.000
ANNs+QM	2	VIQQQFSDL	142	1.000
ANNs+QM	3	LFEERIIFL	36	0.990
ANNs+QM	4	RIIFLGVQV	40	0.930

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QAASAAAVL	107	9.190
QM	2	AASAAVLL	108	8.660
QM	3	AAGTPGKRM	117	7.030
QM	4	GTPGKRMAL	119	5.790

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MRTLME TTL	160	0.470
ANNs+QM	2	ASAAAVLLA	109	0.410
ANNs+QM	3	CLGQAASAA	104	0.150
ANNs+QM	4	DIMAQLLVL	55	0.120

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GQAASAAAV	106	0.610

ANNs+QM	2	ASAAAVLLA	109	0.180
ANNs+QM	3	RIIFLGVQV	40	0.130
ANNs+QM	4	AAGTPGKRM	117	0.130

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QAASAAAVL	107	9.460
QM	2	DIMAQLLVL	55	7.160
QM	3	VIQGQFSDL	142	6.440
QM	4	AQLLVLESL	58	5.900

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LFEERIIFL	36	0.930
ANNs+QM	2	RADIQTVCL	97	0.830
ANNs+QM	3	SANDIMAQL	52	0.320
ANNs+QM	4	VIQGQFSDL	142	0.140

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CLGQAASAA	104	1.000
ANNs+QM	2	TVCLGQAAS	102	0.980
ANNs+QM	3	LGQAASAAA	105	0.810
ANNs+QM	4	GTPGKRMAL	119	0.750

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RIIFLGVQV	40	-2.120
QM	2	AQLLVLESL	58	-2.526
QM	3	DIMAQLLVL	55	-2.631

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MRTLMEITL	160	0.650
ANNs+QM	2	AAGTPGKRM	117	0.430
ANNs+QM	3	ASAAAVLLA	109	0.400
ANNs+QM	4	LGQAASAAA	105	0.160

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CLGQAASAA	104	0.950
ANNs+QM	2	AASAAVLL	108	0.630
ANNs+QM	3	ASAAVLLA	109	0.610
ANNs+QM	4	QAASAAVL	107	0.460

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DIMAQLLVL	55	0.405
QM	2	TVCLGQAAS	102	-0.693

QM	3	ASAAVLLA	109	-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	GTPGKRMAL	119	0.000
QM	2	DIMAQLLVL	55	-0.511
QM	3	ASAAVLLA	109	-0.511

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DKILTAEEA	186	4.605
QM	2	AQLLVLESL	58	2.303
QM	3	MRTLMECTL	160	2.303
QM	4	GQAASAAAV	106	1.792

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AASAAVLL	108	0.980
ANNs+QM	2	CLGQAASAA	104	0.960
ANNs+QM	3	QAASAAVL	107	0.950
ANNs+QM	4	GQAASAAAV	106	0.840

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LFEERIIFL	36	1.000
ANNs+QM	2	SANDIMAQL	52	1.000
ANNs+QM	3	AQLLVLESL	58	1.000
ANNs+QM	4	QAASAAVL	107	0.930

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MRTLMEITL	160	4.094
QM	2	AQLLVLESL	58	1.792
QM	3	IQTVCLGQA	100	0.693
QM	4	GQAASAAAV	106	0.693

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MRTLMEITL	160	1.000
ANNs+QM	2	RADIQTVCL	97	0.130
ANNs+QM	3	RIIFLGVQV	40	0.080
ANNs+QM	4	GTPGKRMAL	119	0.020

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MRTLMEITL	160	1.000
ANNs+QM	2	RIIFLGVQV	40	0.930
ANNs+QM	3	RADIQTVCL	97	0.220

ANNs+QM	4	AASAAVLL	108	0.110
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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	MRTLME T TL	160	0.610
ANNs+QM	2	SANDIMAQL	52	0.560
ANNs+QM	3	LFEERIIFL	36	0.350
ANNs+QM	4	TVCLGQAAS	102	0.350

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KDTDRDKIL	181	3.689
QM	2	LFEERIIFL	36	1.609
QM	3	AASAAVLL	108	1.609
QM	4	SANDIMAQL	52	0.405

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LFEERIIFL	36	2.485
QM	2	RADIQTVCL	97	1.099
QM	3	SANDIMAQL	52	0.956
QM	4	GTPGKRMAL	119	0.693

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	LFEERIIFL	36	3.296
QM	2	SANDIMAQL	52	2.197
QM	3	DIMAQLLVL	55	2.197
QM	4	AQLLVLESL	58	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQLLVLESL	58	3.178
QM	2	SANDIMAQL	52	0.875
QM	3	MRTLMETTL	160	0.875
QM	4	LFEERIIFL	36	0.693

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KDTRDKIL	181	0.916
QM	2	ASAAVLLA	109	0.693
QM	3	AQLLVLESL	58	0.000

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ASAAVLLA	109	0.588
QM	2	KDTRDKIL	181	-0.288
QM	3	AQLLVLESL	58	-0.799

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MRTLMEITL	160	0.860
ANNs+QM	2	RIIFLGVQV	40	0.810
ANNs+QM	3	DKILTAEAA	186	0.780
ANNs+QM	4	AASAAVLL	108	0.700

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AASAAVLL	108	9.120
QM	2	AAGTPGKRM	117	7.930
QM	3	DASANDIMA	50	4.890
QM	4	VIQGQFSDL	142	4.500

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AASAAVLL	108	9.120
QM	2	AAGTPGKRM	117	7.930
QM	3	DASANDIMA	50	4.890
QM	4	VIQGQFSDL	142	4.500

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

QM	1	GQAASAAAV	106	2.485
QM	2	AQLLVLESL	58	2.452
QM	3	RIIFLGVQV	40	1.386
QM	4	QAASAAAVL	107	1.099

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DIMAQLLVL	55	0.500
ANNs+QM	2	QAASAAAVL	107	0.450
ANNs+QM	3	ASAAVLLA	109	0.280
ANNs+QM	4	AASAAVLL	108	0.170

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QAASAAAVL	107	0.470
ANNs+QM	2	RIIFLGVQV	40	0.390
ANNs+QM	3	GQAASAAAV	106	0.300
ANNs+QM	4	CLGQAASAA	104	0.280

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LFEERIIFL	36	0.690
ANNs+QM	2	RADIQTVCL	97	0.580
ANNs+QM	3	MRTLME TTL	160	0.550
ANNs+QM	4	QAASAAAVL	107	0.420

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RADIQTVCL	97	1.194
QM	2	ASAAAVLLA	109	0.971
QM	3	GTPGKRMAL	119	0.788
QM	4	SANDIMAQL	52	0.405

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KDTDRDKIL	181	2.996
QM	2	AASAAVLL	108	2.773
QM	3	RADIQTVCL	97	2.079
QM	4	QAASAAVL	107	2.079

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KDTDRDKIL	181	0.693
QM	2	GQAASAAV	106	0.095
QM	3	VCLGQAASA	103	0.000

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQLLVLESL	58	2.079

QM	2	IQTVCLGQA	100	1.649
QM	3	CLGQAASAA	104	1.386
QM	4	GQAASAAAV	106	1.386

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DIMAQLLVL	55	0.980
ANNs+QM	2	LFEERIIFL	36	0.880
ANNs+QM	3	AASAAVLL	108	0.840
ANNs+QM	4	QAASAAVL	107	0.670

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QAASAAVL	107	0.400
ANNs+QM	2	GQAASAAAV	106	0.290
ANNs+QM	3	RADIQTVCL	97	0.250
ANNs+QM	4	LFEERIIFL	36	0.180

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ASAAVLLA	109	0.720
ANNs+QM	2	DASANDIMA	50	0.610
ANNs+QM	3	DKILTAEEA	186	0.610
ANNs+QM	4	DIMAQLLVL	55	0.580

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DIMAQLLVL	55	2.996
QM	2	AQLLVLESL	58	2.996
QM	3	VIQGQFSDL	142	2.485
QM	4	SANDIMAQL	52	2.079

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SANDIMAQL	52	6.310
QM	2	LFEERIIFL	36	6.110
QM	3	QAASAAVL	107	4.640
QM	4	AAGTPGKRM	117	2.850

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SANDIMAQL	52	1.887
QM	2	MRTLMECTL	160	1.887
QM	3	AQLLVLESL	58	1.482
QM	4	LFEERIIFL	36	1.386

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SANDIMAQL	52	1.307

QM	2	AQLLVLESL	58	0.875
QM	3	MRTLME TTL	160	0.875
QM	4	QAASAAVL	107	0.278

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CLGQAASAA	104	0.940
ANNs+QM	2	QAASAAVL	107	0.920
ANNs+QM	3	SANDIMAQL	52	0.740
ANNs+QM	4	RIIFLGVQV	40	0.670

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GTPGKRMAL	119	15.350
QM	2	LGQAASAAA	105	11.890
QM	3	SANDIMAQL	52	10.040
QM	4	KDTDRDKIL	181	9.910

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AASAAVLL	108	0.970
ANNs+QM	2	QAASAAVL	107	0.950
ANNs+QM	3	MRTLME TTL	160	0.810
ANNs+QM	4	VIQGQFSDL	142	0.720

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GTPGKRMAL	119	0.950
ANNs+QM	2	MRTLMEITL	160	0.850
ANNs+QM	3	QAASAAVL	107	0.700
ANNs+QM	4	LFEERIIFL	36	0.360

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KDTRDKIL	181	0.693
QM	2	RIIFLGVQV	40	-0.693
QM	3	GQAASAAV	106	-0.693

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MRTLMEITL	160	0.870
ANNs+QM	2	AASAAVLL	108	0.820
ANNs+QM	3	DASANDIMA	50	0.810
ANNs+QM	4	VIQGQFSDL	142	0.740

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VIQGQFSDL	142	18.780
QM	2	DIMAQLLVL	55	15.780

QM	3	AASAAVLL	108	11.980
QM	4	GTPGKRMAL	119	10.170

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQLLVLESL	58	10.330
QM	2	VIQGQFSDL	142	5.800
QM	3	KDTDRDKIL	181	5.140
QM	4	MRTLMECTL	160	5.130

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAGTPGKRM	117	6.270
QM	2	GTPGKRMAL	119	6.090
QM	3	KDTDRDKIL	181	5.860
QM	4	IQTVCLGQA	100	3.490

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQLLVLESL	58	10.210
QM	2	AAGTPGKRM	117	8.880
QM	3	VIQGQFSDL	142	5.600
QM	4	RADIQTVCL	97	5.300

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TVCLGQAAS	102	4.080
QM	2	LFEERIIFL	36	1.500
QM	3	SANDIMAQL	52	0.710

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QAASAAAVL	107	17.690
QM	2	AASAAVLL	108	17.270
QM	3	RADIQTVCL	97	13.680
QM	4	GTPGKRMAL	119	12.370

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MRTLME TTL	160	6.830
QM	2	GTPGKRMAL	119	2.060
QM	3	LFEERIIFL	36	1.800

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MRTLME TTL	160	11.680
QM	2	GTPGKRMAL	119	11.020
QM	3	GQAASAAAV	106	8.220

QM	4	VIQGQFSDL	142	7.800
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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	GTPGKRMAL	119	6.560
QM	2	AQLLVLESL	58	3.700
QM	3	SANDIMAQL	52	3.080
QM	4	AASAAVLL	108	1.460

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RIIFLGVQV	40	0.910
QM	2	AAGTPGKRM	117	0.710
QM	3	SANDIMAQL	52	0.570
QM	4	GQAASAAV	106	0.210

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DKILTAEAA	186	5.510
QM	2	CLGQAASAA	104	3.770
QM	3	SANDIMAQL	52	2.830
QM	4	AASAAVLL	108	2.000

ALLELE: HLA-A*6801				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	CLGQAASAA	104	0.710
ANNs+QM	2	GQAASAAAV	106	0.620
ANNs+QM	3	TVCLGQAAS	102	0.610
ANNs+QM	4	ASAAAVLLA	109	0.460

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QAASAAAVL	107	0.980
ANNs+QM	2	DASANDIMA	50	0.960
ANNs+QM	3	RIIFLGVQV	40	0.950
ANNs+QM	4	AASAAVLL	108	0.950