



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

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Antigen Name	Untitled
Scanned on	Thu Feb 11 19:47:41 2010
Length of input sequence	159 amino acids
Number of nonamers from input sequence	151
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	HSDGDVAVH	38	0.850
ANNs+QM	2	DGDVAVHAL	40	0.450
ANNs+QM	3	RRLEAQAVL	112	0.270
ANNs+QM	4	VSATTTDGL	130	0.260

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALCDAVLSA	47	0.990
ANNs+QM	2	WLVGLLFPS	23	0.980

ANNs+QM	3	LLNAPVSVS	123	0.310
ANNs+QM	4	GLTGRGEGEGL	139	0.310

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALCDAVLSA	47	1.000
ANNs+QM	2	LLNAPVSVS	123	0.950
ANNs+QM	3	AQAVLSRLL	116	0.840
ANNs+QM	4	LTGRGEGELA	140	0.350

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLTGRGEGEGL	139	0.960
ANNs+QM	2	ALCDAVLSA	47	0.940
ANNs+QM	3	ATTTDGLGL	132	0.900
ANNs+QM	4	WLVGLLFPS	23	0.840

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WLVGLLFPS	23	0.880
ANNs+QM	2	ALCDAVLSA	47	0.820
ANNs+QM	3	LLNAPVSVS	123	0.330
ANNs+QM	4	QGVSGADML	73	0.290

ALLELE: HLA-A*0206

Threshold for .5 % with score: .5

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALCDAVLSA	47	0.990
ANNs+QM	2	RRLEAQAVL	112	0.430
ANNs+QM	3	VNQLPRVGL	1	0.420
ANNs+QM	4	WLVGLLFPS	23	0.280

ALLELE: HLA-A*0205

Threshold for 4 % with score: 5.950

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RPKIGWRRL	106	7.370
QM	2	WLVGLLFPS	23	6.450
QM	3	ATTTDGLGL	132	6.340
QM	4	AQAVLSRLL	116	5.480

ALLELE: HLA-A*1101

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ATTTDGLGL	132	0.500
ANNs+QM	2	GLTGRGEGL	139	0.410
ANNs+QM	3	LLNAPVSVS	123	0.370
ANNs+QM	4	VLSAAGLGD	52	0.320

ALLELE: HLA-A11

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LLNAPVSVS	123	0.410

ANNs+QM	2	HSDGDVAVH	38	0.270
ANNs+QM	3	HALCDAVLS	46	0.220
ANNs+QM	4	ADGCAGHSD	32	0.200

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRLEAQAVL	112	13.280
QM	2	VHALCDAVL	45	13.210
QM	3	DAVLSAAGL	50	8.910
QM	4	VNQLPRVGL	1	7.820

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ATTTDGLGL	132	0.470
ANNs+QM	2	VSATTTDGL	130	0.280
ANNs+QM	3	PSADGCAGH	30	0.230
ANNs+QM	4	GLTGRGEGL	139	0.210

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GRGEGLAAI	142	0.520
ANNs+QM	2	PSADGCAGH	30	0.470
ANNs+QM	3	RRLEAQAVL	112	0.330
ANNs+QM	4	LTGRGEGLA	140	0.320

ALLELE: HLA-A*3101

Threshold for 4 % with score: -1.609

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ALCDAVLSA	47	-2.526
QM	2	WLVGLLFPS	23	-3.730
QM	3	ATTTDGLGL	132	-3.912

ALLELE: HLA-A31

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VLSAAGLGD	52	0.860
ANNs+QM	2	PSADGCAGH	30	0.700
ANNs+QM	3	LTGRGEGLA	140	0.420
ANNs+QM	4	EAQAVLSRL	115	0.380

ALLELE: HLA-A*0301

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALCDAVLSA	47	0.930
ANNs+QM	2	AQAVLSRLL	116	0.800
ANNs+QM	3	GLGLTGRGE	137	0.800
ANNs+QM	4	ADGCAGHSD	32	0.320

ALLELE: HLA-A*3302

Threshold for 4 % with score: -0.105

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HSDGDVAHV	38	-0.693
QM	2	VSATTTDGL	130	-0.693

QM	3	WLVGLLFPS	23	-1.204
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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	LTGRGEGLA	140	1.099
QM	2	DVAVHALCD	42	0.875
QM	3	ATTTDGLGL	132	0.000

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLTGRGEGL	139	2.708
QM	2	VNQLPRVGL	1	2.303
QM	3	RRLEAQAVL	112	2.303
QM	4	AQAVLSRLL	116	2.303

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GLTGRGEGL	139	1.000
ANNs+QM	2	WLVGLLFPS	23	0.960
ANNs+QM	3	HSDGDVAVH	38	0.900
ANNs+QM	4	VLSAAGLGD	52	0.900

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRLEAQAVL	112	1.000
ANNs+QM	2	DAVLSAAGL	50	0.940
ANNs+QM	3	QGVSGADML	73	0.850
ANNs+QM	4	EAQAVLSRL	115	0.810

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRLEAQAVL	112	5.193
QM	2	GRGEGLA AI	142	4.094
QM	3	AQAVLSRLL	116	0.588

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRLEAQAVL	112	1.000
ANNs+QM	2	GRGEGLA AI	142	0.820
ANNs+QM	3	RPKIGWRRL	106	0.540
ANNs+QM	4	HSDGDVA VH	38	0.090

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRLEAQAVL	112	1.000
ANNs+QM	2	GRGEGLA AI	142	0.840
ANNs+QM	3	AQAVLSRLL	116	0.500
ANNs+QM	4	ATTTDGLGL	132	0.480

ALLELE: HLA-B*3501

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	0.930
ANNs+QM	2	RRLEAQAVL	112	0.860
ANNs+QM	3	EAQAVLSRL	115	0.320
ANNs+QM	4	QGVSGADML	73	0.140

ALLELE: HLA-B*3701

Threshold for 4 % with score: 0.405

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QGVSGADML	73	1.609
QM	2	AQAVLSRLL	116	1.609
QM	3	EAQAVLSRL	115	0.405

ALLELE: HLA-B*3801

Threshold for 4 % with score: 0.445

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VHALCDAVL	45	3.401
QM	2	DGDVAVHAL	40	1.361
QM	3	GLTGRGEGE	139	0.693
QM	4	EAQAVLSRL	115	0.262

ALLELE: HLA-B*3901

Threshold for 4 % with score: 1.792

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRLEAQAVL	112	4.094

QM	2	VHALCDAVL	45	3.807
QM	3	GRGEGLAAI	142	2.708
QM	4	DGDVAVHAL	40	2.603

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQAVLSRLL	116	3.178
QM	2	EAQAVLSRL	115	0.875
QM	3	VNQLPRVGL	1	0.693
QM	4	DGDVAVHAL	40	0.693

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGLAAIAT	144	2.079
QM	2	DAVLSAAGL	50	0.693
QM	3	QGVSGADML	73	0.693

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGLAAIAT	144	2.197
QM	2	DGDVAVHAL	40	0.300
QM	3	DAVLSAAGL	50	-0.105

ALLELE: HLA-B*5101				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	0.960
ANNs+QM	2	HALCDAVLS	46	0.830
ANNs+QM	3	EAQAVLSRL	115	0.580
ANNs+QM	4	DAVLSAAGL	50	0.490

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DAVLSAAGL	50	7.870
QM	2	EAQAVLSRL	115	6.570
QM	3	VNQLPRVGL	1	6.400
QM	4	IGWRRLEAQ	109	5.400

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DAVLSAAGL	50	7.870
QM	2	EAQAVLSRL	115	6.570
QM	3	VNQLPRVGL	1	6.400
QM	4	IGWRRLEAQ	109	5.400

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RGEGLAAIA	143	2.303
QM	2	AQAVLSRLL	116	1.664
QM	3	QGVSGADML	73	1.504

QM	4	DGDVAVHAL	40	1.281
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ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	1.000
ANNs+QM	2	PSADGCAGH	30	0.330
ANNs+QM	3	VHALCDAVL	45	0.200
ANNs+QM	4	ALCDAVLSA	47	0.100

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	1.000
ANNs+QM	2	LTGRGEGLA	140	0.320
ANNs+QM	3	RRLEAQAVL	112	0.310
ANNs+QM	4	LCDAVLSAA	48	0.160

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	1.000
ANNs+QM	2	RRLEAQAVL	112	0.890
ANNs+QM	3	EAQAVLSRL	115	0.710
ANNs+QM	4	DAVLSAAGL	50	0.220

ALLELE: HLA-B*5801				
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Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ATTTDGLGL	132	0.788
QM	2	VSATTTDGL	130	0.693
QM	3	LTGRGEGLA	140	0.693

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VNQLPRVGL	1	2.079
QM	2	DAVLSAAGL	50	2.079
QM	3	QGVSGADML	73	2.079
QM	4	VSATTTDGL	130	2.079

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGLAAIAT	144	1.482
QM	2	RGEGLAAIA	143	-0.598
QM	3	LCDAVLSAA	48	-0.693

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQAVLSRLL	116	2.079
QM	2	ALCDAVLSA	47	0.971
QM	3	GLTGRGEGEGL	139	0.875

ALLELE: HLA-B7

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	1.000
ANNs+QM	2	ATTTDGLGL	132	0.650
ANNs+QM	3	AQAVLSRLL	116	0.530
ANNs+QM	4	RRLEAQAVL	112	0.490

ALLELE: HLA-B*0702

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	1.000
ANNs+QM	2	LTGRGEGLA	140	0.450
ANNs+QM	3	VNQLPRVGL	1	0.350
ANNs+QM	4	PSADGCAGH	30	0.340

ALLELE: HLA-B8

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VSATTTDGL	130	0.670
ANNs+QM	2	RPKIGWRRL	106	0.640
ANNs+QM	3	ATTTDGLGL	132	0.640
ANNs+QM	4	VHALCDAVL	45	0.620

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRLEAQAVL	112	4.094

QM	2	DAVLSAAGL	50	3.689
QM	3	QGVSGADML	73	2.996
QM	4	EAQAVLSRL	115	1.569

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RPKIGWRRL	106	11.430
QM	2	DGDVAVHAL	40	5.840
QM	3	QGVSGADML	73	2.310
QM	4	EAQAVLSRL	115	1.310

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQAVLSRLL	116	1.982
QM	2	EAQAVLSRL	115	1.482
QM	3	DGDVAVHAL	40	1.386
QM	4	RPKIGWRRL	106	0.884

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EAQAVLSRL	115	0.971
QM	2	AQAVLSRLL	116	0.875
QM	3	GRGEGLAAL	142	0.652
QM	4	RPKIGWRRL	106	0.588

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GRGEGLAAI	142	1.000
ANNs+QM	2	RPKIGWRRL	106	0.980
ANNs+QM	3	QGVSGADML	73	0.880
ANNs+QM	4	RRLEAQAVL	112	0.820

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGDVAVHAL	40	19.270
QM	2	GRGEGLAAI	142	15.220
QM	3	RGEGLA AIA	143	12.550
QM	4	QGVSGADML	73	12.130

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQAVLSRLL	116	1.000
ANNs+QM	2	RPKIGWRRL	106	0.960
ANNs+QM	3	RRLEAQAVL	112	0.790
ANNs+QM	4	DGDVAVHAL	40	0.780

ALLELE: H2-Kd

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQAVLSRLL	116	0.960

ANNs+QM	2	VSATTTDGL	130	0.890
ANNs+QM	3	GLTGRGEG	139	0.880
ANNs+QM	4	DGDVAVHAL	40	0.850

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGLAAIAT	144	2.303
QM	2	GRGEGLAAI	142	0.000
QM	3	EAQAVLSRL	115	-0.223

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKIGWRRL	106	0.910
ANNs+QM	2	QGVSGADML	73	0.590
ANNs+QM	3	VNQLPRVGL	1	0.400
ANNs+QM	4	LLNAPVSVS	123	0.370

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLEAQAVLS	113	11.460
QM	2	RRLEAQAVL	112	10.970
QM	3	GLTGRGEG	139	8.850
QM	4	VSATTTDGL	130	7.450

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DGDVAVHAL	40	14.470
QM	2	EAQAVLSRL	115	7.920
QM	3	DAVLSAAGL	50	6.470
QM	4	GLTGRGEGL	139	4.760

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GLTGRGEGL	139	5.950
QM	2	ATTTDGLGL	132	3.800
QM	3	RPKIGWRRL	106	2.670
QM	4	GLGLTGRGE	137	2.220

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EAQAVLSRL	115	10.830
QM	2	GLTGRGEGL	139	8.010
QM	3	DGDVAVHAL	40	7.330
QM	4	VSATTTDGL	130	6.960

ALLELE: Mamu-A*01

Threshold for 4 % with score: 3.650

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RPKIGWRRL	106	5.510

QM	2	AQAVLSRLL	116	1.570
QM	3	HALCDAVLS	46	-0.270

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLEAQAVLS	113	16.430
QM	2	DGDVAVHAL	40	15.290
QM	3	RRLEAQAVL	112	15.290
QM	4	LLNAPVSVS	123	14.370

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRLEAQAVL	112	6.100
QM	2	GRGEGLA AI	142	5.920
QM	3	VHALCDAVL	45	3.720
QM	4	HSDGDVAVH	38	2.000

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GRGEGLA AI	142	13.790
QM	2	RRLEAQAVL	112	13.570
QM	3	AQAVLSRLL	116	9.450
QM	4	GEGLAAIAT	144	9.150

ALLELE: HLA-B*2902

Threshold for 4 % with score: 7.750

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGLAAIAT	144	10.840
QM	2	GRGEGLA AI	142	5.840
QM	3	GLGLTGRGE	137	5.420
QM	4	ADGCAGHSD	32	4.560

ALLELE: HLA-A*3301

Threshold for 4 % with score: 3.840

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LLNAPVSVS	123	2.700
QM	2	AQAVLSRLL	116	0.940
QM	3	HSDGDVA VH	38	-0.460

ALLELE: HLA-B44

Threshold for 4 % with score: 4.900

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGLAAIAT	144	15.140
QM	2	DAVLSAAGL	50	3.680
QM	3	GLGLTGRGE	137	3.300
QM	4	GLTGRGEGL	139	3.160

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WLVG LLFPS	23	0.710
ANNs+QM	2	GLGLTGRGE	137	0.380

ANNs+QM	3	DVAVHALCD	42	0.360
ANNs+QM	4	AQAVLSRLL	116	0.300

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VNQLPRVGL	1	1.000
ANNs+QM	2	VSATTTDGL	130	0.990
ANNs+QM	3	VHALCDAVL	45	0.980
ANNs+QM	4	PSADGCAGH	30	0.960