



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

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Antigen Name	Untitled
Scanned on	Thu Feb 25 01:25:46 2010
Length of input sequence	174 amino acids
Number of nonamers from input sequence	166
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	VGCGALHVL	63	0.220
ANNs+QM	2	DTYAGKILL	28	0.200
ANNs+QM	3	HGIGHAIVD	90	0.060
ANNs+QM	4	YDIGVAEFL	147	0.060

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DLYGKVVGC	57	0.240
ANNs+QM	2	IVDRLLQVA	96	0.230

ANNs+QM	3	SDVPAIKQL	18	0.030
ANNs+QM	4	DTYAGKILL	28	0.010

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTYAGKILL	28	0.940
ANNs+QM	2	DLYGKVVGC	57	0.560
ANNs+QM	3	FWVAEHPDL	50	0.320
ANNs+QM	4	TEIEGTPVT	128	0.230

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YDIGVAEFL	147	0.720
ANNs+QM	2	VGCGALHVL	63	0.650
ANNs+QM	3	DLYGKVVGC	57	0.510
ANNs+QM	4	IVDRLLQVA	96	0.280

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VGCGALHVL	63	0.860
ANNs+QM	2	TEIEGTPVT	128	0.170
ANNs+QM	3	RRARTSDVP	13	0.150
ANNs+QM	4	SDVPAIKQL	18	0.090

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SDVPAIKQL	18	0.490
ANNs+QM	2	FWVAEHPDL	50	0.300
ANNs+QM	3	TEIEGTPVT	128	0.120
ANNs+QM	4	VGCGALHVL	63	0.060

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDIGVAEFL	147	6.610
QM	2	DTYAGKILL	28	5.990
QM	3	VGCGALHVL	63	3.250
QM	4	SDVPAIKQL	18	2.820

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SDVPAIKQL	18	0.100
ANNs+QM	2	DLYGKVVGC	57	0.060
ANNs+QM	3	DTYAGKILL	28	0.050
ANNs+QM	4	GKILLEKNL	32	0.010

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DLYGKVVGC	57	0.070

ANNs+QM	2	IVDRLLQVA	96	0.060
ANNs+QM	3	DTYAGKILL	28	0.020
ANNs+QM	4	SDVPAIKQL	18	0.010

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGCGALHVL	63	6.920
QM	2	DTYAGKILL	28	3.230
QM	3	IGVAEFLDL	149	1.820
QM	4	RRARTSDVP	13	1.160

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FWVAEHPDL	50	0.350
ANNs+QM	2	DTYAGKILL	28	0.110
ANNs+QM	3	GKILLEKNL	32	0.050
ANNs+QM	4	IGVAEFLDL	149	0.050

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRARTSDVP	13	0.580
ANNs+QM	2	IVDRLLQVA	96	0.510
ANNs+QM	3	DLYGKVVGC	57	0.220
ANNs+QM	4	VGCGALHVL	63	0.150

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IVDRLLQVA	96	-3.219
QM	2	DTYAGKILL	28	-4.017
QM	3	FWVAEHPDL	50	-5.521

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TEIEGTPVT	128	0.420
ANNs+QM	2	DTYAGKILL	28	0.380
ANNs+QM	3	IVDRLLQVA	96	0.290
ANNs+QM	4	RRARTSDVP	13	0.140

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DLYGKVVGC	57	0.350
ANNs+QM	2	RRARTSDVP	13	0.160
ANNs+QM	3	VGCGALHVL	63	0.140
ANNs+QM	4	EIRTVAVDP	77	0.140

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DLYGKVVGC	57	-0.105
QM	2	IVDRLLQVA	96	-0.693

QM	3	DTYAGKILL	28	-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	IVDRLQVA	96	1.386
QM	2	DTYAGKILL	28	1.099
QM	3	TEIEGTPVT	128	-2.813

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GKILLEKNL	32	6.215
QM	2	DTYAGKILL	28	1.609
QM	3	DLYGKVVGC	57	1.099
QM	4	VGCGALHVL	63	0.916

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YDIGVAEFL	147	0.970
ANNs+QM	2	HGIGHAIVD	90	0.960
ANNs+QM	3	DTYAGKILL	28	0.940
ANNs+QM	4	GKILLEKNL	32	0.900

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTYAGKILL	28	0.970
ANNs+QM	2	RRARTSDVP	13	0.770
ANNs+QM	3	SDVPAIKQL	18	0.730
ANNs+QM	4	VGCGALHVL	63	0.560

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRARTSDVP	13	1.792
QM	2	DTYAGKILL	28	-0.799
QM	3	DLYGKVVGC	57	-0.799

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRARTSDVP	13	1.000
ANNs+QM	2	DLYGKVVGC	57	0.500
ANNs+QM	3	DTYAGKILL	28	0.160
ANNs+QM	4	GKILLEKNL	32	0.010

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRARTSDVP	13	0.920
ANNs+QM	2	DTYAGKILL	28	0.810
ANNs+QM	3	GKILLEKNL	32	0.460
ANNs+QM	4	DLYGKVVGC	57	0.220

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRARTSDVP	13	0.730
ANNs+QM	2	FWVAEHPDL	50	0.160
ANNs+QM	3	IGVAEFLDL	149	0.080
ANNs+QM	4	VGCGALHVL	63	0.030

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDIGVAEFL	147	5.704
QM	2	SDVPAIKQL	18	3.689
QM	3	DTYAGKILL	28	1.609

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGCGALHVL	63	0.956
QM	2	FWVAEHPDL	50	0.693
QM	3	DTYAGKILL	28	0.000

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FWVAEHPDL	50	1.792
QM	2	IGVAEFLDL	149	1.792

QM	3	VGCGALHVL	63	1.504
QM	4	DTYAGKILL	28	1.099

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GKILLEKNL	32	3.178
QM	2	DTYAGKILL	28	0.693
QM	3	FWVAEHPDL	50	0.693
QM	4	VGCGALHVL	63	0.693

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDVPAIKQL	18	2.996
QM	2	TEIEGTPVT	128	2.773
QM	3	YDIGVAEFL	147	2.303
QM	4	IGVAEFLDL	149	0.693

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEIEGTPVT	128	3.401
QM	2	SDVPAIKQL	18	2.197
QM	3	YDIGVAEFL	147	2.133

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	GKILLEKNL	32	0.860
ANNs+QM	2	YDIGVAEFL	147	0.660
ANNs+QM	3	VGCGALHVL	63	0.430
ANNs+QM	4	EIRTVAVDP	77	0.410

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IGVAEFLDL	149	9.790
QM	2	VGCGALHVL	63	7.640
QM	3	EIRTVAVDP	77	2.330
QM	4	YDIGVAEFL	147	1.440

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IGVAEFLDL	149	9.790
QM	2	VGCGALHVL	63	7.640
QM	3	EIRTVAVDP	77	2.330
QM	4	YDIGVAEFL	147	1.440

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGCGALHVL	63	3.209
QM	2	IVDRLLQVA	96	1.982
QM	3	TEIEGTPVT	128	1.376

QM	4	YDIGVAEFL	147	0.971
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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	FWVAEHPDL	50	0.650
ANNs+QM	2	DTYAGKILL	28	0.530
ANNs+QM	3	YDIGVAEFL	147	0.330
ANNs+QM	4	GKILLEKNL	32	0.270

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTYAGKILL	28	0.470
ANNs+QM	2	FWVAEHPDL	50	0.380
ANNs+QM	3	TEIEGTPVT	128	0.300
ANNs+QM	4	HGIGHAIVD	90	0.230

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VGCGALHVL	63	1.000
ANNs+QM	2	GKILLEKNL	32	0.450
ANNs+QM	3	YDIGVAEFL	147	0.330
ANNs+QM	4	DTYAGKILL	28	0.260

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	DTYAGKILL	28	-0.511
QM	2	IGVAEFLDL	149	-1.619
QM	3	VGCGALHVL	63	-2.120

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDVPAIKQL	18	3.784
QM	2	YDIGVAEFL	147	3.784
QM	3	IGVAEFLDL	149	2.773
QM	4	DTYAGKILL	28	2.079

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEIEGTPVT	128	2.079
QM	2	SDVPAIKQL	18	1.386
QM	3	YDIGVAEFL	147	0.693

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DLYGKVVGC	57	1.058
QM	2	EIRTVAVDP	77	-1.022
QM	3	IGVAEFLDL	149	-1.858

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTYAGKILL	28	0.950
ANNs+QM	2	YDIGVAEFL	147	0.890
ANNs+QM	3	HGIGHAIVD	90	0.570
ANNs+QM	4	FWVAEHPDL	50	0.230

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTYAGKILL	28	0.650
ANNs+QM	2	FWVAEHPDL	50	0.260
ANNs+QM	3	YDIGVAEFL	147	0.080
ANNs+QM	4	TEIEGTPVT	128	0.070

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GKILLEKNL	32	0.660
ANNs+QM	2	DTYAGKILL	28	0.650
ANNs+QM	3	TEIEGTPVT	128	0.480
ANNs+QM	4	RRARTSDVP	13	0.460

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDVPAIKQL	18	4.787

QM	2	IGVAEFLDL	149	4.605
QM	3	FWVAEHPDL	50	2.996
QM	4	YDIGVAEFL	147	2.996

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FWVAEHPDL	50	6.370
QM	2	VGCGALHVL	63	4.490
QM	3	DTYAGKILL	28	4.430
QM	4	SDVPAIKQL	18	4.250

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GKILLEKNL	32	1.887
QM	2	SDVPAIKQL	18	1.482
QM	3	VGCGALHVL	63	1.386
QM	4	FWVAEHPDL	50	0.788

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SDVPAIKQL	18	1.212
QM	2	YDIGVAEFL	147	1.153
QM	3	GKILLEKNL	32	0.182
QM	4	VGCGALHVL	63	0.182

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FWVAEHPDL	50	0.690
ANNs+QM	2	RRARTSDVP	13	0.550
ANNs+QM	3	SDVPAIKQL	18	0.240
ANNs+QM	4	GKILLEKNL	32	0.240

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGCGALHVL	63	13.600
QM	2	SDVPAIKQL	18	11.910
QM	3	IGVAEFLDL	149	11.180
QM	4	GKILLEKNL	32	6.980

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VGCGALHVL	63	0.860
ANNs+QM	2	YDIGVAEFL	147	0.650
ANNs+QM	3	GKILLEKNL	32	0.600
ANNs+QM	4	DTYAGKILL	28	0.440

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YDIGVAEFL	147	0.980

ANNs+QM	2	GKILLEKNL	32	0.960
ANNs+QM	3	DTYAGKILL	28	0.840
ANNs+QM	4	DLYGKVVGC	57	0.420

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEIEGTPVT	128	2.996
QM	2	YDIGVAEFL	147	2.079
QM	3	SDVPAIKQL	18	1.386
QM	4	DTYAGKILL	28	0.470

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DTYAGKILL	28	0.960
ANNs+QM	2	IGVAEFLDL	149	0.780
ANNs+QM	3	FWVAEHPDL	50	0.730
ANNs+QM	4	YDIGVAEFL	147	0.110

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IGVAEFLDL	149	12.780
QM	2	DTYAGKILL	28	9.440
QM	3	FWVAEHPDL	50	8.780
QM	4	VGCGALHVL	63	7.780

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGCGALHVL	63	6.000
QM	2	IGVAEFLDL	149	3.970
QM	3	YDIGVAEFL	147	3.820
QM	4	DTYAGKILL	28	2.970

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FWVAEHPDL	50	4.670
QM	2	GKILLEKNL	32	4.550
QM	3	SDVPAIKQL	18	4.000
QM	4	IVDRLLQVA	96	2.690

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDIGVAEFL	147	5.660
QM	2	SDVPAIKQL	18	4.490
QM	3	VGCGALHVL	63	3.920
QM	4	GKILLEKNL	32	3.850

ALLELE: Mamu-A*01

Threshold for 4 % with score: 3.650

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DTYAGKILL	28	4.350

QM	2	FWVAEHPDL	50	-0.050
QM	3	TEIEGTPVT	128	-0.540

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DLYGKVVGC	57	14.930
QM	2	VGCGALHVL	63	10.860
QM	3	SDVPAIKQL	18	10.170
QM	4	FWVAEHPDL	50	8.660

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HGIGHAIVD	90	3.000
QM	2	RRARTSDVP	13	2.620
QM	3	YDIGVAEFL	147	1.330
QM	4	VGCGALHVL	63	1.280

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGCGALHVL	63	8.340
QM	2	SDVPAIKQL	18	6.660
QM	3	GKILLEKNL	32	6.540
QM	4	FWVAEHPDL	50	6.320

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEIEGTPVT	128	12.700
QM	2	YDIGVAEFL	147	8.930
QM	3	SDVPAIKQL	18	6.980
QM	4	DLYGKVVGC	57	5.300

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FWVAEHPDL	50	0.680
QM	2	SDVPAIKQL	18	-0.340
QM	3	IVDRLLQVA	96	-0.340

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDIGVAEFL	147	5.200
QM	2	SDVPAIKQL	18	4.170
QM	3	TEIEGTPVT	128	2.380
QM	4	GKILLEKNL	32	2.350

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	SDVPAIKQL	18	0.440
ANNs+QM	2	VGCGALHVL	63	0.390

ANNs+QM	3	DLYGKVVGC	57	0.130
ANNs+QM	4	HGIGHAIVD	90	0.080

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GKILLEKNL	32	0.980
ANNs+QM	2	YDIGVAEFL	147	0.980
ANNs+QM	3	DLYGKVVGC	57	0.910
ANNs+QM	4	DTYAGKILL	28	0.850