



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

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Antigen Name	Untitled
Scanned on	Tue Mar 9 23:59:49 2010
Length of input sequence	284 amino acids
Number of nonamers from input sequence	276
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	off
ImmunoProteosome Filter	off

ALLELE: HLA-A1				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VIDPVNNVE	36	1.000
ANNs+QM	2	DYDCPRSAL	216	0.890
ANNs+QM	3	ASDIRFCRF	276	0.870
ANNs+QM	4	LADPDWVAI	242	0.830

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QYLMLDYDC	211	1.000
ANNs+QM	2	ALSEPATEI	11	0.990

ANNs+QM	3	QLVARVQGV	198	0.980
ANNs+QM	4	GIEATVIRL	128	0.960

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALSEPATEI	11	1.000
ANNs+QM	2	TVIDPVNNV	35	1.000
ANNs+QM	3	ALGFGSSSF	84	1.000
ANNs+QM	4	RTLSQHDLV	160	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ATKGIEATV	125	1.000
ANNs+QM	2	ALSEPATEI	11	0.990
ANNs+QM	3	IATAYPNLV	112	0.990
ANNs+QM	4	AAIGAKAIL	267	0.990

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALSEPATEI	11	0.990
ANNs+QM	2	FLRPKDIAI	47	0.990
ANNs+QM	3	ATKGIEATV	125	0.990
ANNs+QM	4	SALKKATAI	222	0.980

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLRPKDIAI	47	1.000
ANNs+QM	2	LVARVQGVV	199	1.000
ANNs+QM	3	RIATAYPNL	111	0.990
ANNs+QM	4	QLVARVQGV	198	0.990

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AAIGAKAIL	267	12.290
QM	2	AIRALVPRR	249	8.670
QM	3	RIATAYPNL	111	8.200
QM	4	DVNGIMDEL	258	7.950

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILAEAGYRR	19	1.000
ANNs+QM	2	TTADLAGMR	103	1.000
ANNs+QM	3	MLRVAVPNK	1	0.990
ANNs+QM	4	VEFFFLRPK	43	0.990

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MLRVAVPNK	1	1.000

ANNs+QM	2	ILAEAGYRR	19	1.000
ANNs+QM	3	ATAYPNLVR	113	1.000
ANNs+QM	4	TAYPNLVRK	114	1.000

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DFGITGRDL	63	10.710
QM	2	TKGIEATVI	126	8.750
QM	3	SALKKATAI	222	8.320
QM	4	VPRRDVNGI	254	8.040

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DFGITGRDL	63	1.000
ANNs+QM	2	VFGQQYLML	207	1.000
ANNs+QM	3	QYLMLDYDC	211	0.990
ANNs+QM	4	DYDCPRSAL	216	0.980

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MLRVAVPNK	1	1.000
ANNs+QM	2	ILAEAGYRR	19	1.000
ANNs+QM	3	TAYPNLVRK	114	1.000
ANNs+QM	4	LVRKDLATK	119	1.000

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ILAEAGYRR	19	2.303
QM	2	LMLDYDCPR	213	1.386
QM	3	AIRALVPRR	249	1.386
QM	4	ATAYPNLVR	113	0.693

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILAEAGYRR	19	1.000
ANNs+QM	2	LGFGSSSFR	85	1.000
ANNs+QM	3	VAIRALVPR	248	1.000
ANNs+QM	4	VCDSGAQVR	72	0.990

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALSEPATEI	11	1.000
ANNs+QM	2	YDCPRSALK	217	0.990
ANNs+QM	3	AVPNKGALS	5	0.980
ANNs+QM	4	VEFFFLRPK	43	0.970

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EILAEAGYR	18	3.807

QM	2	DSGAQVRER	74	3.807
QM	3	DSEAVLIER	176	3.807
QM	4	ELDFGITGR	61	3.296

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LVRKDLATK	119	4.787
QM	2	TTADLAGMR	103	4.605
QM	3	ATAYPNLVR	113	4.605
QM	4	DSGAQVRER	74	4.500

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RKDLATKGI	121	5.704
QM	2	TKGIEATVI	126	5.704
QM	3	AKAILASDI	271	5.704
QM	4	LMLDYDCPR	213	5.298

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ALSEPATEI	11	1.000
ANNs+QM	2	ILAEAGYRR	19	1.000
ANNs+QM	3	DLVAFGEPL	166	1.000
ANNs+QM	4	QLVARVQGV	198	1.000

ALLELE: HLA-B14

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GRNWTTADL	99	1.000
ANNs+QM	2	GAVEISVQL	138	1.000
ANNs+QM	3	GRTLSQHDL	159	1.000
ANNs+QM	4	PATEILAEA	15	0.990

ALLELE: HLA-B*2702

Threshold for 4 % with score: 0.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LRPKDIAIY	48	5.298
QM	2	VRERLALGF	79	5.298
QM	3	RRTDSKDLT	27	4.094
QM	4	GRNWTTADL	99	4.094

ALLELE: HLA-B27

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRRTDSKDL	26	1.000
ANNs+QM	2	IRLDGAVEI	134	1.000
ANNs+QM	3	ARVQGVVFG	201	1.000
ANNs+QM	4	ARDQLVARV	195	0.960

ALLELE: HLA-B*2705

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RRRTDSKDL	26	1.000

ANNs+QM	2	FRYAAPAGR	92	1.000
ANNs+QM	3	GRNWTTADL	99	1.000
ANNs+QM	4	IRLDGAVEI	134	1.000

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPVNNVEFF	38	1.000
ANNs+QM	2	APAGRNWTT	96	1.000
ANNs+QM	3	YPNLVRKDL	116	1.000
ANNs+QM	4	TPGLESPTI	231	1.000

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TDSKDLTVI	29	3.689
QM	2	KDLTVIDPV	32	2.485
QM	3	LDGAVEISV	136	2.485
QM	4	LESPTIAPL	234	2.303

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DYDCPRSAL	216	1.792
QM	2	LSEPATEIL	12	1.361
QM	3	GIEATVIRL	128	1.099
QM	4	ASDIRFCRF	276	1.099

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARDQLVARV	195	3.114
QM	2	IRLDGAVEI	134	2.996
QM	3	GRNWTTADL	99	2.708
QM	4	GRTLSQHDL	159	2.708

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQVRERLAL	77	2.996
QM	2	DQTEARDQL	191	2.996
QM	3	SGAQVRERL	75	0.875
QM	4	YPNLVRKDL	116	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEPLCDSEA	171	3.689
QM	2	SEAVLIERA	177	3.689
QM	3	TEARDQLVA	193	3.689
QM	4	LESPTIAPL	234	3.689

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEILAEAGY	17	6.802

QM	2	VEISVQLGV	140	3.401
QM	3	AGMRIATAY	108	3.296
QM	4	AEAGYRRRT	21	3.178

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKDIAIYV	49	1.000
ANNs+QM	2	EPLCDSEAV	172	1.000
ANNs+QM	3	SALKKATAI	222	1.000
ANNs+QM	4	TPGLESPTI	231	1.000

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPLCDSEAV	172	14.950
QM	2	LADPDWVAI	242	14.260
QM	3	RALVPRRDV	251	13.590
QM	4	VPRRDVNGI	254	12.740

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EPLCDSEAV	172	14.950
QM	2	LADPDWVAI	242	14.260
QM	3	RALVPRRDV	251	13.590
QM	4	DPVNNVEFF	38	13.280

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VADAIADV	148	4.277
QM	2	VQLGVADAI	144	4.094
QM	3	LVARVQGVV	199	3.401
QM	4	FGITGRDLV	64	2.708

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPVNNVEFF	38	1.000
ANNs+QM	2	RPKDIAIYV	49	1.000
ANNs+QM	3	SPTIAPLAD	236	0.990
ANNs+QM	4	APAGRNWTT	96	0.980

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKDIAIYV	49	1.000
ANNs+QM	2	SPTIAPLAD	236	1.000
ANNs+QM	3	VPRRDVNGI	254	0.970
ANNs+QM	4	DPDWVAIRA	244	0.960

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VPRRDVNGI	254	1.000

ANNs+QM	2	VPNKGALSE	6	0.990
ANNs+QM	3	RPKDIAIYV	49	0.990
ANNs+QM	4	YPNLVRKDL	116	0.990

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YAAPAGRNW	94	4.477
QM	2	IAPLADPDW	239	4.094
QM	3	ASDIRFCRF	276	4.062
QM	4	LSQHDLVAF	162	3.871

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LESPTIAPL	234	5.768
QM	2	VEISVQLGV	140	3.561
QM	3	GAVEISVQL	138	2.963
QM	4	TEARDQLVA	193	2.773

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEISVQLGV	140	4.382
QM	2	SEAVLIERA	177	4.382
QM	3	TEARDQLVA	193	3.689
QM	4	GEPLCDSEA	171	3.091

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GQQYLMLDY	209	5.257
QM	2	ALGFGSSSF	84	5.075
QM	3	VQLGVADAI	144	2.262
QM	4	VARVQGVVF	200	2.069

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKDIAIYV	49	1.000
ANNs+QM	2	APAGRNWTT	96	1.000
ANNs+QM	3	RIATAYPNL	111	1.000
ANNs+QM	4	YPNLVRKDL	116	1.000

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RPKDIAIYV	49	1.000
ANNs+QM	2	YPNLVRKDL	116	1.000
ANNs+QM	3	SPTIAPLAD	236	0.990
ANNs+QM	4	DPDWVAIRA	244	0.970

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GYRRRTDSK	24	1.000

ANNs+QM	2	YDCPRSALK	217	1.000
ANNs+QM	3	VADAIADV	148	0.770
ANNs+QM	4	TADLAGMRI	104	0.750

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAVPNKGAL	4	4.787
QM	2	GAVEISVQL	138	4.094
QM	3	DVVGSGRTL	154	3.178
QM	4	GVVFGQQYL	205	3.178

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YPNLVRKDL	116	11.310
QM	2	DFGITGRDL	63	9.310
QM	3	VNNVEFFFL	40	8.370
QM	4	DPVNNVEFF	38	7.580

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KATAITPGL	226	1.982
QM	2	GAVEISVQL	138	1.887
QM	3	ARDQLVARV	195	1.887
QM	4	DLVAFGEPL	166	1.792

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GQQYLMLDY	209	2.955
QM	2	LRPKDIAIY	48	2.262
QM	3	AGMRIATAY	108	2.262
QM	4	GFGSSSFRY	86	2.079

ALLELE: H2-Db

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VAVPNKGAL	4	1.000
ANNs+QM	2	PAGRNWTTA	97	1.000
ANNs+QM	3	RNWTADLA	100	0.970
ANNs+QM	4	RIATAYPNL	111	0.970

ALLELE: H2-Dd

Threshold for 4 % with score: 11.800

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SGAQVRERL	75	19.270
QM	2	KGIEATVIR	127	16.250
QM	3	PVNNVEFFF	39	14.470
QM	4	GSGELDFGI	58	14.230

ALLELE: H2-Kb

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AAIGAKAIL	267	1.000

ANNs+QM	2	SALKKATAI	222	0.990
ANNs+QM	3	RIATAYPNL	111	0.980
ANNs+QM	4	APAGRNWTT	96	0.970

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DYDCPRSAL	216	1.000
ANNs+QM	2	AYPNLVRKD	115	0.990
ANNs+QM	3	VAVPNKGAL	4	0.980
ANNs+QM	4	FGITGRDLV	64	0.980

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VEISVQLGV	140	5.011
QM	2	TDSKDLTVI	29	4.605
QM	3	LDGAVEISV	136	3.689
QM	4	SEPATEILA	13	2.996

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YPNLVRKDL	116	1.000
ANNs+QM	2	LSQHDLVAF	162	1.000
ANNs+QM	3	ASDIRFCRF	276	1.000
ANNs+QM	4	YVGSSELDF	56	0.960

ALLELE: HLA-G

Threshold for 4 % with score: 9.260

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GIEATVIRL	128	20.110
QM	2	RIATAYPNL	111	17.640
QM	3	VLIERAGTD	180	15.400
QM	4	AAIGAKAIL	267	14.110

ALLELE: H-2Qa

Threshold for 4 % with score: 6.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GRTLSQHDL	159	13.470
QM	2	FLRPKDIAI	47	10.290
QM	3	DLVAFGEPL	166	9.460
QM	4	VQLGVADAI	144	8.990

ALLELE: HLA-B*2706

Threshold for 4 % with score: 5.000

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEPLCDSEA	171	8.220
QM	2	GRTLSQHDL	159	8.090
QM	3	RRRTDSKDL	26	7.000
QM	4	IATAYPNLV	112	6.200

ALLELE: HLA-B35

Threshold for 4 % with score: 8.350

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPRRDVNGI	254	15.200

QM	2	YPNLVRKDL	116	12.330
QM	3	DYDCPRSAL	216	11.140
QM	4	EPLCDSEAV	172	11.020

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TVIDPVNNV	35	8.150
QM	2	QTEARDQLV	192	7.080
QM	3	AVEISVQLG	139	6.320
QM	4	EPLCDSEAV	172	5.640

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RTLSQHDLV	160	13.730
QM	2	ALSEPATEI	11	13.330
QM	3	VADAIADV	148	13.200
QM	4	RLDGAVEIS	135	13.190

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARVQGVVFG	201	10.740
QM	2	GRTLSQHDL	159	8.430
QM	3	FRYAAPAGR	92	7.980
QM	4	IRALVPRRD	250	7.550

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GRTLSQHDL	159	19.320
QM	2	RRRTDSKDL	26	18.660
QM	3	GRNWTTADL	99	15.450
QM	4	FRYAAPAGR	92	13.790

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEILAEAGY	17	13.580
QM	2	LESPTIAPL	234	12.260
QM	3	IERAGTDGQ	182	12.080
QM	4	GELDFGITG	60	10.420

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDCPRSALK	217	6.820
QM	2	LVCDSGAQV	71	6.260
QM	3	AIRALVPRR	249	6.040
QM	4	LASDIRFCR	275	5.570

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEILAEAGY	17	10.530

QM	2	GEPLCDSEA	171	8.650
QM	3	DELAAIGAK	264	8.230
QM	4	SEAVLIERA	177	8.130

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VEFFFLRPK	43	1.000
ANNs+QM	2	ATAYPNLVR	113	1.000
ANNs+QM	3	YDCPRSALK	217	1.000
ANNs+QM	4	LGFGSSSFR	85	0.990

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EAVLIERAG	178	1.000
ANNs+QM	2	QLVARVQGV	198	1.000
ANNs+QM	3	RVQGVVFGQ	202	1.000
ANNs+QM	4	RVAVPNKGA	3	0.990