



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

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Antigen Name	Untitled
Scanned on	Thu Apr 15 00:05:31 2010
Length of input sequence	260 amino acids
Number of nonamers from input sequence	252
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	MNEEQALKA	95	1.000
ANNs+QM	2	EPEPGKPAP	80	0.440
ANNs+QM	3	ARQRADAML	154	0.420
ANNs+QM	4	LAQDTADRL	109	0.260

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLESQLEEL	226	0.910
ANNs+QM	2	FLDLVENEL	31	0.720

ANNs+QM	3	LKAARVLSL	101	0.240
ANNs+QM	4	RINELDQEL	52	0.120

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLESQLEEL	226	1.000
ANNs+QM	2	FLDLVENEL	31	0.990
ANNs+QM	3	LKAARVLSL	101	0.980
ANNs+QM	4	RINELDQEL	52	0.060

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLDLVENEL	31	0.950
ANNs+QM	2	ARQRADAML	154	0.920
ANNs+QM	3	YLESQLEEL	226	0.910
ANNs+QM	4	RINELDQEL	52	0.570

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QRGSAAPVD	236	0.450
ANNs+QM	2	QAQEKADAL	175	0.420
ANNs+QM	3	RLTNTAKAE	116	0.410
ANNs+QM	4	QRAVLEGRL	201	0.410

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLESQLEEL	226	0.990
ANNs+QM	2	QAQEKADAL	175	0.350
ANNs+QM	3	ARQRADAML	154	0.280
ANNs+QM	4	YNEDEVDAF	23	0.140

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QALKAARVL	99	10.080
QM	2	LAQDTADRL	109	7.100
QM	3	MPLTPADVH	1	5.350
QM	4	QAQEKADAL	175	4.720

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQLRQAQEK	171	1.000
ANNs+QM	2	ATVAEARQR	149	0.810
ANNs+QM	3	RLTNTAKAE	116	0.320
ANNs+QM	4	LKAARVLSL	101	0.260

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQLRQAQEK	171	1.000

ANNs+QM	2	ATVAEARQR	149	0.990
ANNs+QM	3	RVLSLAQDT	105	0.860
ANNs+QM	4	HTADATVAE	145	0.860

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QALKAARVL	99	9.410
QM	2	QAQEKADAL	175	7.620
QM	3	RINELDQEL	52	7.510
QM	4	ARQRADAML	154	6.660

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AKAESDKML	121	0.680
ANNs+QM	2	RINELDQEL	52	0.330
ANNs+QM	3	ARQRADAML	154	0.260
ANNs+QM	4	QALKAARVL	99	0.210

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RLTNTAKAE	116	0.970
ANNs+QM	2	KMLADARAN	127	0.900
ANNs+QM	3	YEPEPGKPA	79	0.770
ANNs+QM	4	ARQRADAML	154	0.660

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AQLRQAQEK	171	-0.916
QM	2	ATVAEARQR	149	-1.609
QM	3	RINELDQEL	52	-2.813

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QRAVLEGRL	201	0.410
ANNs+QM	2	RGYNEDEV	21	0.320
ANNs+QM	3	MPLTPADVH	1	0.300
ANNs+QM	4	ATVAEARQR	149	0.240

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AQLRQAQEK	171	1.000
ANNs+QM	2	KMLADARAN	127	0.980
ANNs+QM	3	QALKAARVL	99	0.860
ANNs+QM	4	ATVAEARQR	149	0.840

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ATVAEARQR	149	1.099
QM	2	QILGEARHT	138	-0.693

QM	3	FLDLVENEL	31	-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	ATVAEARQR	149	4.605
QM	2	RVLSLAQDT	105	2.079
QM	3	AQLRQAQEK	171	1.792

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LKAARVLSL	101	6.215
QM	2	AKAESDKML	121	6.215
QM	3	GKPAPAAVS	84	4.605
QM	4	ATVAEARQR	149	3.689

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	FLDLVENEL	31	1.000
ANNs+QM	2	YLESQLEEL	226	0.920
ANNs+QM	3	QALKAAARVL	99	0.910
ANNs+QM	4	GKPAPAAVS	84	0.790

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

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LKAARVLSL	101	1.000
ANNs+QM	2	ARQRADAML	154	1.000
ANNs+QM	3	QAQEKADAL	175	0.980
ANNs+QM	4	QALKAARVL	99	0.970

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARQRADAML	154	4.094
QM	2	QRAVLEGRL	201	4.094
QM	3	YNEDEVDAF	23	0.693
QM	4	QRGSAAPVD	236	0.693

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QRAVLEGRL	201	0.390
ANNs+QM	2	ARQRADAML	154	0.040
ANNs+QM	3	QRGSAAPVD	236	0.030
ANNs+QM	4	RINELDQEL	52	0.020

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QRAVLEGRL	201	0.960
ANNs+QM	2	ARQRADAML	154	0.750
ANNs+QM	3	QRGSAAPVD	236	0.490

ANNs+QM	4	FLDLVENEL	31	0.400
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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	MPLTPADVH	1	0.980
ANNs+QM	2	EPEPGKPAP	80	0.870
ANNs+QM	3	LADARANAE	129	0.420
ANNs+QM	4	FLDLVENEL	31	0.210

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AKAESDKML	121	1.609
QM	2	ARQRADAML	154	1.609
QM	3	FLDLVENEL	31	0.405

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YNEDEVDAF	23	1.792
QM	2	FLDLVENEL	31	1.361
QM	3	YLESQLEEL	226	1.099
QM	4	RINELDQEL	52	0.956

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YLESQLEEL	226	2.603
QM	2	ARQRADAML	154	2.015
QM	3	QRAVLEGRL	201	2.015
QM	4	QALKAARVL	99	1.792

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LKAARVLSL	101	2.996
QM	2	AKAESDKML	121	2.996
QM	3	FLDLVENEL	31	0.875
QM	4	RINELDQEL	52	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NELDQELAA	54	3.689
QM	2	YEPEPGKPA	79	3.401
QM	3	NEEQALKAA	96	2.303
QM	4	AGMNEEQAL	93	0.693

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NEEQALKAA	96	2.603
QM	2	NELDQELAA	54	2.079
QM	3	YEPEPGKPA	79	1.792

QM	4	YNEDEVDAF	23	1.099
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ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MPLTPADVH	1	0.940
ANNs+QM	2	QALKAARVL	99	0.930
ANNs+QM	3	QAQEKADAL	175	0.870
ANNs+QM	4	LADARANAE	129	0.800

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAEARQRAD	151	7.250
QM	2	MPLTPADVH	1	6.990
QM	3	LADAQSRSE	162	6.800
QM	4	EPEPGKPAP	80	6.580

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAEARQRAD	151	7.250
QM	2	MPLTPADVH	1	6.990
QM	3	LADAQSRSE	162	6.800
QM	4	EPEPGKPAP	80	6.580

ALLELE: HLA-B*5201				
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Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QALKAARVL	99	1.974
QM	2	RGYNEDEV	21	1.012
QM	3	MPLTPADVH	1	0.405
QM	4	AGMNEEQAL	93	0.095

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	EPEPGKPAP	80	0.980
ANNs+QM	2	MPLTPADVH	1	0.960
ANNs+QM	3	AKAESDKML	121	0.410
ANNs+QM	4	AESDKMLAD	123	0.340

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MPLTPADVH	1	0.980
ANNs+QM	2	EPEPGKPAP	80	0.960
ANNs+QM	3	GKPAPAAVS	84	0.580
ANNs+QM	4	YEPEPGKPA	79	0.450

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MPLTPADVH	1	0.950
ANNs+QM	2	EPEPGKPAP	80	0.780
ANNs+QM	3	QAQEKADAL	175	0.760

ANNs+QM	4	QALKAARVL	99	0.620
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ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QALKAARVL	99	0.693
QM	2	QAQEKADAL	175	0.693
QM	3	LAQDTADRL	109	0.095

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NELDQELAA	54	2.773
QM	2	AGMNEEQAL	93	2.079
QM	3	QALKAARVL	99	2.079
QM	4	LAQDTADRL	109	1.482

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NELDQELAA	54	3.689
QM	2	YEPEPGKPA	79	2.996
QM	3	NEEQALCAA	96	2.996

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

QM	1	FLDLVENEL	31	-0.511
QM	2	QILGEARHT	138	-0.511
QM	3	YLESQLEEL	226	-0.511

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MPLTPADVH	1	0.970
ANNs+QM	2	AKAESDKML	121	0.920
ANNs+QM	3	QAQEKADAL	175	0.640
ANNs+QM	4	QALKAARVL	99	0.550

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	MPLTPADVH	1	0.970
ANNs+QM	2	EPEPGKPAP	80	0.900
ANNs+QM	3	QRAVLEGRL	201	0.420
ANNs+QM	4	VAEARQRAD	151	0.270

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QALKAARVL	99	0.640
ANNs+QM	2	QRAVLEGRL	201	0.620
ANNs+QM	3	GKPAPAAVS	84	0.600
ANNs+QM	4	QAQEKADAL	175	0.590

ALLELE: HLA-Cw*0301

Threshold for 4 % with score: 2.015

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QALKAARVL	99	3.689
QM	2	AGMNEEQAL	93	2.485
QM	3	QAQEKADAL	175	1.792
QM	4	LAQDTADRL	109	1.386

ALLELE: HLA-Cw*0401

Threshold for 4 % with score: 4.370

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YNEDEVDAF	23	8.430
QM	2	QALKAARVL	99	5.370
QM	3	AGMNEEQAL	93	3.760
QM	4	AKAESDKML	121	3.760

ALLELE: HLA-Cw*0602

Threshold for 4 % with score: 1.482

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RINELDQEL	52	1.887
QM	2	QRAVLEGRL	201	1.887
QM	3	QAQEKADAL	175	1.482
QM	4	YLESQLEEL	226	1.482

ALLELE: HLA-Cw*0702

Threshold for 4 % with score: 1.212

Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QRAVLEGRL	201	1.569

QM	2	YLESQLEEL	226	0.460
QM	3	FLDLVENEL	31	0.365
QM	4	RINELDQEL	52	0.365

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QALKAARVL	99	0.990
ANNs+QM	2	QAQEKADAL	175	0.970
ANNs+QM	3	RINELDQEL	52	0.910
ANNs+QM	4	AGMNEEQAL	93	0.890

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AGMNEEQAL	93	14.950
QM	2	ARQRADAML	154	11.020
QM	3	QAQEKADAL	175	8.930
QM	4	QRAVLEGRL	201	7.910

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QALKAARVL	99	0.990
ANNs+QM	2	QAQEKADAL	175	0.830
ANNs+QM	3	QRAVLEGRL	201	0.820
ANNs+QM	4	AKAESDKML	121	0.680

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QRAVLEGRL	201	0.950
ANNs+QM	2	AKAESDKML	121	0.870
ANNs+QM	3	ARQRADAML	154	0.630
ANNs+QM	4	QALKAARVL	99	0.620

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NELDQELAA	54	2.996
QM	2	YEPEPGKPA	79	2.303
QM	3	NEEQALKAA	96	2.303
QM	4	FLDLVENEL	31	0.182

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LKAARVLSL	101	0.800
ANNs+QM	2	AKAESDKML	121	0.750
ANNs+QM	3	ARQRADAML	154	0.540
ANNs+QM	4	QAQEKADAL	175	0.480

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RINELDQEL	52	14.310

QM	2	LKAARVLSL	101	13.110
QM	3	GKPAPAAVS	84	9.390
QM	4	YLESQLEEL	226	8.850

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YLESQLEEL	226	8.290
QM	2	FLDLVENEL	31	4.170
QM	3	ARQRADAML	154	3.470
QM	4	RINELDQEL	52	2.990

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEPEPGKPA	79	8.000
QM	2	RINELDQEL	52	6.000
QM	3	FLDLVENEL	31	5.000
QM	4	RGYNEDEV	21	4.670

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MPLTPADVH	1	10.140
QM	2	QAQEKADAL	175	9.360
QM	3	FLDLVENEL	31	8.920
QM	4	LAQDTADRL	109	8.560

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAEARQRAD	151	3.190
QM	2	INELDQELA	53	3.020
QM	3	LADAQSRSE	162	0.950
QM	4	AGMNEEQAL	93	0.720

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FLDLVENEL	31	19.350
QM	2	YLESQLEEL	226	16.720
QM	3	QALKAARVL	99	16.630
QM	4	QAQEKADAL	175	14.130

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QRAVLEGRL	201	7.510
QM	2	ARQRADAML	154	5.830
QM	3	QRGSAAPVD	236	3.930
QM	4	FLDLVENEL	31	2.490

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	QRAVLEGRL	201	14.440

QM	2	ARQRADAML	154	12.230
QM	3	QRGSAAPVD	236	10.450
QM	4	LRQAQEKAD	173	8.030

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AESDKMLAD	123	10.700
QM	2	YNEDEVDAF	23	7.600
QM	3	DQELAAGGG	57	7.030
QM	4	EPEPGKPAP	80	5.800

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ATVAEARQR	149	2.430
QM	2	QILGEARHT	138	1.450
QM	3	HTADATVAE	145	-0.160

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NEEQALKAA	96	6.690
QM	2	NELDQELAA	54	4.530
QM	3	ATVAEARQR	149	3.190
QM	4	AESDKMLAD	123	0.550

ALLELE: HLA-A*6801

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ATVAEARQR	149	1.000
ANNs+QM	2	HTADATVAE	145	0.920
ANNs+QM	3	KMLADARAN	127	0.860
ANNs+QM	4	RLTNTAKAE	116	0.780

ALLELE: HLA-A*6802

Threshold for 4 % with score: 4

Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QRAVLEGRL	201	0.950
ANNs+QM	2	QALKAARVL	99	0.920
ANNs+QM	3	RGYNEDEV	21	0.910
ANNs+QM	4	RLTNTAKAE	116	0.910