



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

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Antigen Name	Untitled
Scanned on	Fri Feb 5 17:09:25 2010
Length of input sequence	874 amino acids
Number of nonamers from input sequence	866
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	PVDEANLAA	534	1.000
ANNs+QM	2	GAEAVAAQE	697	1.000
ANNs+QM	3	IDDVAQLLL	648	0.730
ANNs+QM	4	SKDAIADVL	41	0.700

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AIADVLRL	44	1.000
ANNs+QM	2	RLSEDFVAL	170	1.000
ANNs+QM	3	YYGSTSRRL	639	1.000
ANNs+QM	4	NLAAVTVSA	539	0.980

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DLAAEQSVL	27	1.000
ANNS+QM	2	SIVAEKALL	121	1.000
ANNS+QM	3	NLAAVTVSA	539	1.000
ANNS+QM	4	RLSEDFVAL	170	0.970

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	AIADVLERL	44	0.970
ANNS+QM	2	KTVTVAHQQL	856	0.960
ANNS+QM	3	SSGGLARGV	194	0.950
ANNS+QM	4	SWITHAPKL	662	0.930

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	AIADVLERL	44	3.860
ANNS+QM	2	LRADTGAEV	408	0.950
ANNS+QM	3	EIRAKARRL	316	0.470
ANNS+QM	4	EGADVAEVV	148	0.400

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	AIADVLERL	44	0.940
ANNS+QM	2	GVATGFTEL	201	0.930
ANNS+QM	3	NGPTKTVTV	852	0.890
ANNS+QM	4	IVAEKALLR	122	0.790

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AIADVLERL	44	9.750
QM	2	EGWTPLAQL	478	9.610
QM	3	GAKDQVRFL	682	9.560
QM	4	KTVTVAHQ L	856	9.090

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	IVAEKALLR	122	1.000
ANNS+QM	2	SRHLKLLAK	358	0.950
ANNS+QM	3	PTAANAGYY	111	0.770
ANNS+QM	4	LTASTRILR	401	0.690

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	IVAEKALLR	122	1.000
ANNS+QM	2	LTASTRILR	401	0.990
ANNS+QM	3	PTAANAGYY	111	0.980
ANNS+QM	4	MVWSLDERL	429	0.640

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NGISLHNSL	809	9.910
QM	2	DLAAEQSVL	27	9.170
QM	3	SWITHAPKL	662	8.220
QM	4	RCTPIAAWL	578	7.800

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	EFSRHLKLL	356	1.000
ANNS+QM	2	IYDVADRRRL	163	0.980
ANNS+QM	3	RAAIRDDYL	552	0.890
ANNS+QM	4	RCTPIAAWL	578	0.830

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PTAANAGYY	111	1.000
ANNS+QM	2	IVAEKALLR	122	0.990
ANNS+QM	3	SRHLKLLAK	358	0.990
ANNS+QM	4	IVMRLLSAE	263	0.970

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IVAEKALLR	122	1.386
QM	2	LTASTRILR	401	0.693
QM	3	MMEIRAKAR	314	0.000

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	IVAEKALLR	122	1.000
ANNS+QM	2	LTASTRILR	401	0.980
ANNS+QM	3	DRRLSEDFV	168	0.910
ANNS+QM	4	FLRHVGVHG	689	0.770

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	AIHELARGD	770	0.970
ANNS+QM	2	AIASSGGLA	191	0.960
ANNS+QM	3	SRHLKLLAK	358	0.960
ANNS+QM	4	ELISLARMI	511	0.830

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IVAEKALLR	122	2.708
QM	2	MMEIRAKAR	314	2.708
QM	3	LTASTRILR	401	1.099
QM	4	EMSKSEIVM	257	0.405

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IVAEKALLR	122	5.991
QM	2	LTASTRILR	401	4.605
QM	3	EVSEFSRHL	353	2.890
QM	4	GVATGFTEL	201	2.079

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SKDAIADVL	41	6.215
QM	2	RKEVFRRLR	452	6.215
QM	3	MKFEGWTPL	475	6.215
QM	4	AKELEVPVV	365	5.704

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ELISLARM I	511	0.980
ANNS+QM	2	LSAEAKIKL	268	0.970
ANNS+QM	3	RRIGGAPYL	95	0.960
ANNS+QM	4	ASIVAEKAL	120	0.960

ALLELE: HLA-B14				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DAVTVAEEL	80	1.000
ANNS+QM	2	RRLRQKANL	322	1.000
ANNS+QM	3	SRHLKLLAK	358	1.000
ANNS+QM	4	RAAIRDDYL	552	1.000

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRIGGAPYL	95	5.193
QM	2	RRLRQKANL	322	5.193
QM	3	QRTDKKPML	384	4.094
QM	4	LRADTGAEV	408	2.996

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	RRIGGAPYL	95	1.000
ANNS+QM	2	RRLRQKANL	322	1.000
ANNS+QM	3	SRHLKLLAK	358	1.000
ANNS+QM	4	RRLIDDVAQ	645	1.000

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	RRIGGAPYL	95	1.000
ANNS+QM	2	RRLRQKANL	322	1.000
ANNS+QM	3	SRHLKLLAK	358	1.000
ANNS+QM	4	RRLIDDVAQ	645	0.990

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	MPESELISL	507	1.000
ANNS+QM	2	EPADAVTVA	77	0.890
ANNS+QM	3	RPAHQNVYD	59	0.770
ANNS+QM	4	EPVDEANLA	533	0.770

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IDDVAQLLL	648	5.298
QM	2	YDVADRRRLS	164	2.996
QM	3	YEPVDEANL	532	2.303
QM	4	IEDRAIHEL	766	2.303

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IYDVADRRRL	163	2.054
QM	2	MPESELISL	507	1.792
QM	3	KSEIVMRL	260	1.361
QM	4	LSAEAKIKL	268	1.138

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRIGGAPYL	95	3.401
QM	2	RRLRQKANL	322	2.708
QM	3	QRTDKKPML	384	2.708
QM	4	KSEIVMRLI	260	2.603

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SKDAIADVL	41	3.178
QM	2	RKEVFRRLR	452	3.178
QM	3	MKFEGWTPL	475	2.996
QM	4	AIADVLRLR	44	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEPVDEANL	532	2.996
QM	2	DEIDAIASS	187	2.773
QM	3	IEDRAIHEL	766	2.303
QM	4	GEPADAVTV	76	2.079

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DEIDAIASS	187	4.500
QM	2	ADTGAEVAF	410	3.114
QM	3	GEPADAVTV	76	1.792
QM	4	IEDRAIHEL	766	1.792

ALLELE: HLA-B*5101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	EGADVAEVV	148	1.000
ANNS+QM	2	RAQAEIYDV	158	1.000
ANNS+QM	3	EANLAAVTV	537	1.000
ANNS+QM	4	NGPTKTVTV	852	1.000

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPEAVFRAP	601	15.690
QM	2	RAQAEIYDV	158	14.160
QM	3	NGPTKTVTV	852	14.110
QM	4	EANLAAVTV	537	13.280

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VPEAVFRAP	601	15.690
QM	2	RAQAEIYDV	158	14.160
QM	3	NGPTKTVTV	852	14.110
QM	4	EANLAAVTV	537	13.280

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EGADVAEVV	148	4.700
QM	2	ELISLARM I	511	2.485
QM	3	NGPTKTVTV	852	2.398
QM	4	EPADAVTVA	77	2.015

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	MPESELISL	507	1.000
ANNS+QM	2	EPADAVTVA	77	0.970
ANNS+QM	3	EPVDEANLA	533	0.940
ANNS+QM	4	RPAHQNVYD	59	0.900

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	MPESELISL	507	1.000
ANNS+QM	2	EPADAVTVA	77	0.990
ANNS+QM	3	RPAHQNVYD	59	0.940
ANNS+QM	4	EPVDEANLA	533	0.870

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	SWITHAPKL	662	1.000
ANNS+QM	2	QRTDKKPML	384	0.980
ANNS+QM	3	NGPTKTVTV	852	0.950
ANNS+QM	4	RCTPIAAWL	578	0.920

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KSEIVMRL	260	2.197
QM	2	KTVTVAHQ	856	2.197
QM	3	LSAEAKIK	268	1.482
QM	4	RAQAEIYD	158	1.376

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEPVDEANL	532	5.075
QM	2	IEDRAIHEL	766	5.075
QM	3	IDDVAQLLL	648	3.689
QM	4	LSAEAKIKL	268	2.868

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEPADAVTV	76	3.784
QM	2	IEDRAIHEL	766	2.773
QM	3	YEPVDEANL	532	2.079
QM	4	RAQAEIYDV	158	1.194

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	HLKLLAKEL	360	2.485
QM	2	NLAAVTVSA	539	1.569
QM	3	ELISLARM I	511	1.386
QM	4	RLSEDFVAL	170	0.971

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	RRIGGAPYL	95	1.000
ANNS+QM	2	GVATGFTEL	201	1.000
ANNS+QM	3	MPESELISL	507	1.000
ANNS+QM	4	EIRAKARRL	316	0.990

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	MPESELISL	507	1.000
ANNS+QM	2	RPAHQNVYD	59	0.980
ANNS+QM	3	EPADAVTVA	77	0.940
ANNS+QM	4	VPEAVFRAP	601	0.940

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DRRLSEDFV	168	0.780
ANNS+QM	2	IVAEKALLR	122	0.760
ANNS+QM	3	IDDVAQLLL	648	0.730
ANNS+QM	4	SKDAIADVL	41	0.710

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DAVTVAEEL	80	3.689
QM	2	RRIGGAPYL	95	3.689
QM	3	DAIASSGGL	190	3.689
QM	4	EAVAAQEML	699	3.689

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EFSRHLKLL	356	10.760
QM	2	IYDVADRRRL	163	7.900
QM	3	GAKDQVRFL	682	7.040
QM	4	EPADAVTVA	77	6.430

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	EVSEFSRHL	353	1.887
QM	2	HLKLLAKEL	360	1.887
QM	3	NGISLHNSL	809	1.887
QM	4	SKDAIADVL	41	1.792

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	AIADVLERL	44	1.905
QM	2	YYGSTSRRL	639	1.376
QM	3	EPADAVTVA	77	1.212
QM	4	KSEIVMRLI	260	0.875

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PTAANAGYY	111	0.990
ANNS+QM	2	RAAIRDDYL	552	0.980
ANNS+QM	3	RRIGGAPYL	95	0.970
ANNS+QM	4	GVATGFTEL	201	0.960

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NGISLHNSL	809	19.100
QM	2	NGPTKTVTV	852	17.800
QM	3	YEPVDEANL	532	17.150
QM	4	PNDQVALFL	609	12.110

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ASIVAEKAL	120	0.990
ANNS+QM	2	IYDVADRRRL	163	0.970
ANNS+QM	3	AIADVLERL	44	0.930
ANNS+QM	4	YEPVDEANL	532	0.930

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	YYGSTRRL	639	1.000
ANNS+QM	2	SWITHAPKL	662	1.000
ANNS+QM	3	RRIGGAPYL	95	0.990
ANNS+QM	4	IYDVADRRRL	163	0.990

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEPADAVTV	76	3.912
QM	2	YEPVDEANL	532	3.689
QM	3	DEIDAIASS	187	2.996
QM	4	ELISLARM	511	2.996

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	RPAHQNVYD	59	0.970
ANNS+QM	2	QRTDKK PML	384	0.960
ANNS+QM	3	EPADAVTVA	77	0.900
ANNS+QM	4	LSAEAKIKL	268	0.880

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GVATGFTEL	201	18.780
QM	2	RLSEDFVAL	170	16.240
QM	3	EIRAKARRL	316	16.110
QM	4	GEPADAVTV	76	15.260

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTVTVAHQ	856	12.260
QM	2	RCTPIAAWL	578	10.970
QM	3	ELISLARM	511	9.890
QM	4	IEDRAIHEL	766	8.800

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SRHLKLLAK	358	9.360
QM	2	QRTDKKPL	384	7.530
QM	3	QSVLGGMLL	32	7.330
QM	4	IEDRAIHEL	766	6.400

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	MPESELISL	507	13.740
QM	2	SWITHAPKL	662	9.590
QM	3	KTVTVAHQ	856	9.580
QM	4	RLSEDFVAL	170	9.360

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YYGSTSRRL	639	4.490
QM	2	QA EIYDVAD	160	4.430
QM	3	EVSEFSRHL	353	2.410
QM	4	IYDVADRRRL	163	2.150

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLSEDFVAL	170	19.260
QM	2	IDDVAQLLL	648	16.630
QM	3	DLAAEQSVL	27	16.330
QM	4	SKDAIADVL	41	16.160

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RRIGGAPYL	95	10.270
QM	2	QRTDKKPML	384	9.860
QM	3	ARRMSEISE	293	9.430
QM	4	SRHLKLLAK	358	8.600

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SRHLKLLAK	358	15.410
QM	2	RRIGGAPYL	95	13.100
QM	3	DRRLSEDFV	168	11.650
QM	4	MVWSLDERL	429	11.180

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YEPVDEANL	532	11.530
QM	2	DEIDAIASS	187	11.260
QM	3	KTVTVAHQQL	856	6.930
QM	4	GVATGFTEL	201	6.860

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SLHNSLEQD	812	3.930
QM	2	IVAEKALLR	122	3.410
QM	3	MKFEGWTPL	475	2.430
QM	4	MMEIRAKAR	314	1.900

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IEDRAIHEL	766	10.360
QM	2	DEIDAIASS	187	8.440
QM	3	SWITHAPKL	662	5.320
QM	4	EANLAAVTV	537	5.210

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	MMEIRAKAR	314	1.000
ANNS+QM	2	LTASTRILR	401	1.000
ANNS+QM	3	IVAEKALLR	122	0.950
ANNS+QM	4	SRHLKLLAK	358	0.870

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DRRLSEDFV	168	1.000
ANNS+QM	2	QAEIYDVAD	160	0.990
ANNS+QM	3	SSGGLARGV	194	0.990
ANNS+QM	4	EANLAAVTV	537	0.990