



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

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Antigen Name	Untitled
Scanned on	Sun Jan 31 12:31:11 2010
Length of input sequence	478 amino acids
Number of nonamers from input sequence	470
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	YVDLRDKML	195	0.610
ANNs+QM	2	DPFRAAKTL	81	0.260
ANNs+QM	3	YLTEGGVFT	436	0.250
ANNs+QM	4	YDEETGYAGL	290	0.110

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	PYLAFSAML	376	1.000
ANNs+QM	2	KTPDDVFKL	4	0.980
ANNs+QM	3	FSAMLMAGL	380	0.520
ANNs+QM	4	ARIDPFRAA	78	0.200

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	KTPDDVFKL	4	0.980
ANNS+QM	2	RLEADHEYL	429	0.980
ANNS+QM	3	YLTEGGVFT	436	0.090
ANNS+QM	4	PDSSGNPYL	370	0.060

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	YLTEGGVFT	436	0.840
ANNS+QM	2	IHESDMLLL	64	0.380
ANNS+QM	3	PYLAFSAML	376	0.300
ANNS+QM	4	PQAPVDKDL	397	0.240

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	SGNPYLAFS	373	0.920
ANNS+QM	2	KTPDDVFKL	4	0.910
ANNS+QM	3	FSAMLMAGL	380	0.570
ANNS+QM	4	SAFDKSVFD	40	0.340

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	YLTEGGVFT	436	1.000
ANNS+QM	2	IHESDMLLL	64	0.490
ANNS+QM	3	FSAMLMAGL	380	0.430
ANNS+QM	4	YVDLRDKML	195	0.330

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTPDDVFKL	4	8.500
QM	2	WWNTGAATE	161	8.360
QM	3	YDEETGYAGL	290	7.710
QM	4	DPFRAAKTL	81	7.680

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	RLEADHEYL	429	0.540
ANNS+QM	2	YVDLRDKML	195	0.410
ANNS+QM	3	YLTEGGVFT	436	0.180
ANNS+QM	4	PYLAFSAML	376	0.170

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	GSNPKAKRL	357	0.170
ANNS+QM	2	YVDLRDKML	195	0.140
ANNS+QM	3	WWNTGAATE	161	0.080
ANNS+QM	4	PQAPVDKDL	397	0.080

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IHESDMLLL	64	8.760
QM	2	KTPDDVFKL	4	8.000
QM	3	FSAMLMAGL	380	4.740
QM	4	DPFRAAKTL	81	4.180

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PYLAFSAML	376	1.000
ANNS+QM	2	DKSVFDDGL	43	0.770
ANNS+QM	3	RLEADHEYL	429	0.670
ANNS+QM	4	GSNPKAKRL	357	0.380

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	0.650
ANNS+QM	2	YQFNSSLHA	230	0.620
ANNS+QM	3	YLTEGGVFT	436	0.390
ANNS+QM	4	RLEADHEYL	429	0.310

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YQFNSSLHA	230	-1.427
QM	2	KTPDDVFKL	4	-1.715
QM	3	RLEADHEYL	429	-2.813

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	SAFDKSVFD	40	0.860
ANNS+QM	2	PQAPVDKDL	397	0.680
ANNS+QM	3	YLTEGGVFT	436	0.490
ANNS+QM	4	YQFNSSLHA	230	0.370

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	AFSAML MAG	379	0.550
ANNS+QM	2	ARIDPFRAA	78	0.530
ANNS+QM	3	SAFDKSVFD	40	0.400
ANNS+QM	4	PDPETARID	73	0.350

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YVDLRDKML	195	-0.693
QM	2	GSNPKAKRL	357	-0.693
QM	3	FSAML MAGL	380	-0.693

ALLELE: HLA-A68.1				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YVDLRDKML	195	1.792
QM	2	KTPDDVFKL	4	0.000
QM	3	DPFRAAKTL	81	-0.511

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DKSVFDDGL	43	6.215
QM	2	RLEADHEYL	429	2.708
QM	3	KTPDDVFKL	4	1.609
QM	4	DPFRAAKTL	81	1.609

ALLELE: HLA-A2.1				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	FSAMLMAGL	380	0.980
ANNS+QM	2	GSNPKAKRL	357	0.970
ANNS+QM	3	RLEADHEYL	429	0.970
ANNS+QM	4	YLTEGGVFT	436	0.970

ALLELE: HLA-B14				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	YVDLRDKML	195	0.930
ANNS+QM	2	SGNPYLAFS	373	0.830
ANNS+QM	3	DPFRAAKTL	81	0.790
ANNS+QM	4	GSNPKAKRL	357	0.790

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YQFNSSLHA	230	2.303
QM	2	ARIDPFRAA	78	1.792
QM	3	RLEADHEYL	429	0.993

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DKSVFDDGL	43	0.100
ANNS+QM	2	KTPDDVFKL	4	0.060
ANNS+QM	3	GSNPKAKRL	357	0.060
ANNS+QM	4	SAFDKSVFD	40	0.040

ALLELE: HLA-B*2705				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	ARIDPFRAA	78	0.530
ANNS+QM	2	YLTEGGVFT	436	0.380
ANNS+QM	3	FSAMLMAGL	380	0.190
ANNS+QM	4	SAFDKSVFD	40	0.070

ALLELE: HLA-B*3501				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	TPDDVFKLA	5	0.930
ANNS+QM	3	YVDLRDKML	195	0.360
ANNS+QM	4	SAFDKSVFD	40	0.260

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDETTYAGL	290	3.689
QM	2	IHESDMLLL	64	1.609
QM	3	YVDLRDKML	195	1.609
QM	4	PDSSGNPYL	370	1.386

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IHESDMLLL	64	4.500
QM	2	QHFTIPASA	33	1.361
QM	3	RLEADHEYL	429	1.281
QM	4	YVDLRDKML	195	1.099

ALLELE: HLA-B*3901				
Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IHESDMLLL	64	6.004
QM	2	KTPDDVFKL	4	2.197
QM	3	RLEADHEYL	429	2.197
QM	4	QHFTIPASA	33	1.792

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DKSVFDDGL	43	3.178
QM	2	FSAMLMAGL	380	0.875
QM	3	PQAPVDKDL	397	0.875
QM	4	KTPDDVFKL	4	0.693

ALLELE: HLA-B40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPFRAAKTL	81	0.693
QM	2	GSNPKAKRL	357	0.693
QM	3	YDEYGYAGL	290	0.223

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPFRAAKTL	81	0.012
QM	2	KTPDDVFKL	4	-0.393
QM	3	GSNPKAKRL	357	-0.393

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	DPFRAAKTL	81	0.990
ANNS+QM	2	SAFDKSVFD	40	0.940
ANNS+QM	3	YVDLRDKML	195	0.860
ANNS+QM	4	TPDDVFKLA	5	0.590

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPDDVFKLA	5	8.920
QM	2	DPFRAAKTL	81	8.570
QM	3	IHESDMLLL	64	3.500
QM	4	AFSAML MAG	379	1.580

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TPDDVFKLA	5	8.920
QM	2	DPFRAAKTL	81	8.570
QM	3	IHESDMLLL	64	3.500
QM	4	AFSAML MAG	379	1.580

ALLELE: HLA-B*5201				
Threshold for 4 % with score: 1.974				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPFRAAKTL	81	2.110
QM	2	YQFNLLHA	230	1.705
QM	3	TPDDVFKLA	5	0.788
QM	4	YVDLRDKML	195	0.460

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	TPDDVFKLA	5	0.950
ANNS+QM	3	GSNPKAKRL	357	0.290
ANNS+QM	4	PDSSGNPYL	370	0.260

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	TPDDVFKLA	5	0.880
ANNS+QM	3	ARIDPFRAA	78	0.320
ANNS+QM	4	GSNPKAKRL	357	0.230

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	GSNPKAKRL	357	0.990
ANNS+QM	3	TPDDVFKLA	5	0.970
ANNS+QM	4	SAFDKSVFD	40	0.800

ALLELE: HLA-B*5801				
Threshold for 4 % with score: -0.223				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTPDDVFKL	4	2.069
QM	2	GSNPKAKRL	357	1.482
QM	3	FSAMLMAGL	380	1.099

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDETTYAGL	290	2.996
QM	2	FSAMLMAGL	380	2.175
QM	3	KTPDDVFKL	4	1.482
QM	4	GSNPKAKRL	357	1.482

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDETTYAGL	290	0.000
QM	2	YQFNSSLHA	230	-0.288
QM	3	DPFRAAKTL	81	-0.511

ALLELE: HLA-B62				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YLTEGGVFT	436	1.664
QM	2	YQFNSSLHA	230	1.569
QM	3	RLEADHEYL	429	-0.416

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	PYLAFSAML	376	1.000
ANNS+QM	3	YVDLRDKML	195	0.700
ANNS+QM	4	TPDDVFKLA	5	0.620

ALLELE: HLA-B*0702				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	TPDDVFKLA	5	0.990
ANNS+QM	3	PYLAFSAML	376	0.320
ANNS+QM	4	SAFDKSVFD	40	0.210

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	GSNPKAKRL	357	0.700
ANNS+QM	2	YVDLRDKML	195	0.680
ANNS+QM	3	YLTEGGVFT	436	0.630
ANNS+QM	4	TPDDVFKLA	5	0.590

ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPFRAAKTL	81	2.562
QM	2	GSNPKAKRL	357	2.485
QM	3	ARIDPFRAA	78	2.303
QM	4	YDEYGYAGL	290	2.303

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTPDDVFKL	4	7.370
QM	2	DPFRAAKTL	81	5.250
QM	3	GSNPKAKRL	357	4.250
QM	4	YVDLRDKML	195	2.640

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FSAMLMAGL	380	1.887
QM	2	DKSVFDDGL	43	1.792
QM	3	KTPDDVFKL	4	1.482
QM	4	GSNPKAKRL	357	1.482

ALLELE: HLA-Cw*0702				
Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	FSAMLMAGL	380	1.569
QM	2	YDETGYAGL	290	0.971
QM	3	DPFRAAKTL	81	0.588
QM	4	TPDDVFKLA	5	0.519

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WWNTGAATE	161	0.950
ANNs+QM	2	PDSSGNPYL	370	0.910
ANNs+QM	3	DPFRAAKTL	81	0.540
ANNs+QM	4	GSNPKAKRL	357	0.360

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTPDDVFKL	4	15.420
QM	2	GSNPKAKRL	357	11.170
QM	3	SGNPYLAFS	373	10.820
QM	4	FSAMLMAGL	380	10.580

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	PYLAFSAML	376	1.000
ANNS+QM	2	TPDDVFKLA	5	0.980
ANNS+QM	3	GSNPKAKRL	357	0.930
ANNS+QM	4	ARIDPFRAA	78	0.910

ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DKSVFDDGL	43	0.990
ANNS+QM	2	PYLAFSAML	376	0.990
ANNS+QM	3	YDETFYAGL	290	0.950
ANNS+QM	4	PDSSGNPYL	370	0.910

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDETFYAGL	290	2.079
QM	2	PDSSGNPYL	370	0.470
QM	3	FSAMLMAGL	380	-0.511

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	DPFRAAKTL	81	1.000
ANNS+QM	2	GSNPKAKRL	357	1.000
ANNS+QM	3	PDSSGNPYL	370	0.940
ANNS+QM	4	PQAPVDKDL	397	0.860

ALLELE: HLA-G				
Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	KTPDDVFKL	4	19.510
QM	2	RLEADHEYL	429	17.040
QM	3	GSNPKAKRL	357	10.780
QM	4	KIEPQAPVD	394	8.670

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PQAPVDKDL	397	12.220
QM	2	DKSVFDDGL	43	6.470
QM	3	FSAMLMAGL	380	3.140
QM	4	RLEADHEYL	429	2.260

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLEADHEYL	429	7.670
QM	2	IHESDMLLL	64	4.040
QM	3	PQAPVDKDL	397	3.670
QM	4	ARIDPFRAA	78	3.600

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DPFRAAKTL	81	15.470
QM	2	YVDLRDKML	195	9.750
QM	3	GSNPKAKRL	357	9.660
QM	4	TPDDVFKLA	5	9.210

ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARIDPFRAA	78	5.820
QM	2	TPDDVFKLA	5	2.820
QM	3	PYLAFSAML	376	1.470
QM	4	RLEADHEYL	429	0.950

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RLEADHEYL	429	15.960
QM	2	DKSVFDDGL	43	13.690
QM	3	GSNPKAKRL	357	13.490
QM	4	DPFRAAKTL	81	13.290

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ARIDPFRAA	78	5.940
QM	2	SAFDKSVFD	40	5.430
QM	3	YQFNLLHA	230	3.420
QM	4	IHESDMLLL	64	2.090

ALLELE: HLA-B*2704				
Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	PYLAFSAML	376	8.800
QM	2	YVDLRDKML	195	6.920
QM	3	DPFRAAKTL	81	6.790
QM	4	RLEADHEYL	429	5.450

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YDE T GYAGL	290	10.930
QM	2	PDSSGNPYL	370	6.650
QM	3	KTPDDVFKL	4	5.650
QM	4	RLEADHEYL	429	4.880

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	YQFN S LLHA	230	5.760
QM	2	GSNPKAKRL	357	2.520
QM	3	SAFDKSVFD	40	0.100
QM	4	SGNPYLAFS	373	0.060

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	WWNTGAATE	161	4.340
QM	2	YDE T GYAGL	290	1.760
QM	3	SGNPYLAFS	373	1.650

ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	SAFDKSVFD	40	0.860
ANNS+QM	2	AFSAML M AG	379	0.520
ANNS+QM	3	SGNPYLAFS	373	0.290
ANNS+QM	4	YVDLRDKML	195	0.170

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNS+QM	1	FSAMLMAGL	380	1.000
ANNS+QM	2	YVDLRDKML	195	0.980
ANNS+QM	3	SGNPYLAFS	373	0.980
ANNS+QM	4	KTPDDVFKL	4	0.970