



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

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Antigen Name	Untitled
Scanned on	Wed Mar 17 00:33:42 2010
Length of input sequence	359 amino acids
Number of nonamers from input sequence	351
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	VRDPLDLAL	225	0.870
ANNs+QM	2	AFDGEGIGA	74	0.790
ANNs+QM	3	NACVTAPGL	212	0.450
ANNs+QM	4	RTEILAVVL	277	0.440

ALLELE: HLA-A2				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GIWAGYLGA	60	1.000
ANNs+QM	2	TLAPVLFVL	160	1.000

ANNs+QM	3	ILIAVAVAV	4	0.970
ANNs+QM	4	YLG AHLAGL	65	0.870

ALLELE: HLA-A*0201				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILIAVAVAV	4	1.000
ANNs+QM	2	YLG AHLAGL	65	1.000
ANNs+QM	3	TLAPVLFVL	160	1.000
ANNs+QM	4	SLALGGVIA	262	1.000

ALLELE: HLA-A*0202				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	LVLGLATAL	86	8.710
ANNs+QM	2	ILIAVAVAV	4	1.000
ANNs+QM	3	YLG AHLAGL	65	1.000
ANNs+QM	4	TLAPVLFVL	160	1.000

ALLELE: HLA-A*0203				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLAPVLFVL	160	0.980
ANNs+QM	2	ITCGLGVAL	340	0.860
ANNs+QM	3	NVRDPLDLA	224	0.820
ANNs+QM	4	LIAAATAGA	233	0.560

ALLELE: HLA-A*0206				
Threshold for .5 % with score: .5				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	GIGASGLLV	79	0.990
ANNs+QM	2	AVVLGALFV	282	0.970
ANNs+QM	3	ILIAVAVAV	4	0.960
ANNs+QM	4	TLAPVLFVL	160	0.960

ALLELE: HLA-A*0205				
Threshold for 4 % with score: 5.950				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ATVTLAPVL	157	14.090
QM	2	WAGYLG AHL	62	11.300
QM	3	LVLGLATAL	86	11.010
QM	4	TLAPVLFVL	160	10.130

ALLELE: HLA-A*1101				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVAVAVTVS	7	0.710
ANNs+QM	2	GIGASGLLV	79	0.530
ANNs+QM	3	GSLALGGVI	261	0.500
ANNs+QM	4	SVTSRTEIL	273	0.310

ALLELE: HLA-A11				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVAVAVTVS	7	0.960

ANNs+QM	2	ALIAAATAG	232	0.790
ANNs+QM	3	ILIAVAVAV	4	0.760
ANNs+QM	4	GLLVLGLAT	84	0.730

ALLELE: HLA-A24				
Threshold for 4 % with score: 7.670				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VGQITSAVL	121	11.440
QM	2	NACVTAPGL	212	11.420
QM	3	RTEILAVVL	277	8.780
QM	4	VAEITSVVL	290	8.660

ALLELE: HLA-A*2402				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	NFTDGLDGL	182	1.000
ANNs+QM	2	IFMGDTGSL	255	1.000
ANNs+QM	3	RDPLDLALI	226	0.740
ANNs+QM	4	NAVNFTDGL	179	0.730

ALLELE: HLA-A3				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ITCGLGVAL	340	0.850
ANNs+QM	2	LQFRNAAGL	135	0.730
ANNs+QM	3	ILIAVAVAV	4	0.600
ANNs+QM	4	LIAAATAGA	233	0.580

ALLELE: HLA-A*3101				
Threshold for 4 % with score: -1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RQILIAVAV	2	-2.120
QM	2	GIWAGYLGA	60	-2.120
QM	3	TLAPVLFVL	160	-2.120

ALLELE: HLA-A31				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TLAPVLFVL	160	0.860
ANNs+QM	2	NVRDPLDLA	224	0.690
ANNs+QM	3	LIAAATAGA	233	0.670
ANNs+QM	4	GIGASGLLV	79	0.590

ALLELE: HLA-A*0301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	QILIAVAVA	3	0.930
ANNs+QM	2	ALIAAATAG	232	0.830
ANNs+QM	3	FWLLTAITC	334	0.790
ANNs+QM	4	AGYLG AHLA	63	0.780

ALLELE: HLA-A*3302				
Threshold for 4 % with score: -0.105				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	DLALIAAAT	230	-0.105
QM	2	QILIAVAVA	3	-0.693

QM	3	AVAVAVTVS	7	-0.693
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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	LVLGLATAL	86	2.079
QM	2	AVVLGALFV	282	2.079
QM	3	NVRDPLDLA	224	1.386
QM	4	SVTSRTEIL	273	1.386

ALLELE: HLA-A20 Cattle				
Threshold for 4 % with score: 3.401				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IKIRRSRNL	104	6.215
QM	2	AKTVGQITS	118	4.605
QM	3	YLG AHLAGL	65	2.708
QM	4	TLAPVLFVL	160	2.708

ALLELE: HLA-A2.1				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ILIAVAVAV	4	1.000
ANNs+QM	2	YLG AHLAGL	65	1.000
ANNs+QM	3	TLAPVLFVL	160	1.000
ANNs+QM	4	ALIAAATAG	232	0.990

ALLELE: HLA-B14				
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Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLG AHLAGL	65	1.000
ANNs+QM	2	IKIRRSRNL	104	1.000
ANNs+QM	3	VREIATVTL	153	1.000
ANNs+QM	4	AGYLGAHLA	63	0.940

ALLELE: HLA-B*2702				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VREIATVTL	153	4.094
QM	2	VRDPLDLAL	225	4.094
QM	3	LQFRNAAGL	135	3.401
QM	4	GQITSAVLF	122	2.996

ALLELE: HLA-B27				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	RQILIAVAV	2	0.620
ANNs+QM	2	TALGGVGF	92	0.570
ANNs+QM	3	VREIATVTL	153	0.300
ANNs+QM	4	VRDPLDLAL	225	0.200

ALLELE: HLA-B*2705				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VREIATVTL	153	1.000
ANNs+QM	2	RQILIAVAV	2	0.960
ANNs+QM	3	ATALGGVGF	91	0.830

ANNs+QM	4	GQITSAVLF	122	0.800
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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	DPLDLALIA	227	0.910
ANNs+QM	2	VAVTVSILL	10	0.650
ANNs+QM	3	VAEITSVVL	290	0.550
ANNs+QM	4	RDPLDLALI	226	0.520

ALLELE: HLA-B*3701				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RDPLDLALI	226	5.298
QM	2	GEGIGASGL	77	2.303
QM	3	LDGLAAGTM	187	2.079
QM	4	VAVTVSILL	10	2.015

ALLELE: HLA-B*3801				
Threshold for 4 % with score: 0.445				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NFTDGLDGL	182	1.386
QM	2	IFMGDTGSL	255	1.386
QM	3	RTEILAVVL	277	1.361
QM	4	MGDTGSLAL	257	1.099

ALLELE: HLA-B*3901				
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Threshold for 4 % with score: 1.792				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VREIATVTL	153	3.807
QM	2	VRDPLDLAL	225	3.114
QM	3	NFTDGLDGL	182	2.197
QM	4	MGDTGSLAL	257	2.197

ALLELE: HLA-B*3902				
Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IKIRRSRNL	104	2.996
QM	2	LQFRNAAGL	135	2.996
QM	3	GQITSAVLF	122	1.609
QM	4	VAVTVSILL	10	0.875

ALLELE: HLA-B*40				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	REIATVTLA	154	4.382
QM	2	GEGIGASGL	77	3.689
QM	3	LDLALIAAA	229	1.609
QM	4	ATVTLAPVL	157	1.386

ALLELE: HLA-B*4403				
Threshold for 4 % with score: 0.405				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	REIATVTLA	154	4.500
QM	2	GEGIGASGL	77	2.197
QM	3	TEILAVVLG	278	2.197

QM	4	ATALGGVGF	91	1.386
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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	IAVAVAVTV	6	1.000
ANNs+QM	2	RQILIAVAV	2	0.990
ANNs+QM	3	DPLDLALIA	227	0.960
ANNs+QM	4	LAGIWAGYL	58	0.850

ALLELE: HLA-B*5102				
Threshold for 4 % with score: 9.050				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IAVAVAVTV	6	19.190
QM	2	TAITCGLGV	338	12.010
QM	3	VAEITSVVL	290	11.630
QM	4	TALGGVGF	92	10.080

ALLELE: HLA-B*5103				
Threshold for 4 % with score: 9.280				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	IAVAVAVTV	6	19.190
QM	2	TAITCGLGV	338	12.010
QM	3	SAWSNAVNF	175	11.650
QM	4	VAEITSVVL	290	11.630

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	RQILIAVAV	2	3.871
QM	2	GSLALGGVI	261	3.871
QM	3	VGQITSAVL	121	3.391
QM	4	IGASGLLVL	80	3.209

ALLELE: HLA-B*5301				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPLDLALIA	227	1.000
ANNs+QM	2	VSILLTPVL	14	0.460
ANNs+QM	3	VRDPLDLAL	225	0.340
ANNs+QM	4	YNVRDPLDL	223	0.330

ALLELE: HLA-B*5401				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPLDLALIA	227	1.000
ANNs+QM	2	ATVTLAPVL	157	0.610
ANNs+QM	3	RTEILAVVL	277	0.530
ANNs+QM	4	ILIAVAVAV	4	0.520

ALLELE: HLA-B*51				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WAGYLG AHL	62	1.000
ANNs+QM	2	DPLDLALIA	227	0.990
ANNs+QM	3	LAGIWAGYL	58	0.930

ANNs+QM	4	VRDPLDLAL	225	0.750
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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	ATALGGVGF	91	3.689
QM	2	SAWSNAVNF	175	3.091
QM	3	RTEILAVVL	277	2.197
QM	4	ITCGLGVAL	340	1.504

ALLELE: HLA-B60				
Threshold for 4 % with score: 1.386				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGIGASGL	77	5.075
QM	2	VAVTVSILL	10	2.868
QM	3	IGASGLLVL	80	2.773
QM	4	YNVRDPLDL	223	2.773

ALLELE: HLA-B61				
Threshold for 4 % with score: 0.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	REIATVTLA	154	3.784
QM	2	LDLALIAAA	229	2.303
QM	3	GEGIGASGL	77	2.175
QM	4	RGTPSMGGV	47	0.788

ALLELE: HLA-B62				
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Threshold for 4 % with score: 0.693				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GQITSAVLF	122	4.564
QM	2	RQILIAVAV	2	2.262
QM	3	ILIAVAVAV	4	1.831
QM	4	TLAPVLFVL	160	1.664

ALLELE: HLA-B7				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	YLG AHLAGL	65	0.810
ANNs+QM	2	AKTVGQITS	118	0.680
ANNs+QM	3	REIATVTLA	154	0.640
ANNs+QM	4	TAITCGLGV	338	0.570

ALLELE: HLA-B*0702				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	DPLDLALIA	227	0.850
ANNs+QM	2	TAITCGLGV	338	0.720
ANNs+QM	3	LIAAATAGA	233	0.520
ANNs+QM	4	VAVTVSILL	10	0.510

ALLELE: HLA-B8				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	VRDPLDLAL	225	0.690
ANNs+QM	2	TAITCGLGV	338	0.660
ANNs+QM	3	REIATVTLA	154	0.650

ANNs+QM	4	GIGASGLLV	79	0.640
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ALLELE: HLA-Cw*0301				
Threshold for 4 % with score: 2.015				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAVTVSILL	10	3.689
QM	2	NAVNFTDGL	179	3.689
QM	3	IKIRRSRNL	104	3.401
QM	4	YNVRDPLDL	223	3.401

ALLELE: HLA-Cw*0401				
Threshold for 4 % with score: 4.370				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NFTDGLDGL	182	11.100
QM	2	IFMGDTGSL	255	5.370
QM	3	WAGYLG AHL	62	4.640
QM	4	IGASGLLV L	80	2.430

ALLELE: HLA-Cw*0602				
Threshold for 4 % with score: 1.482				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ASGLLV LGL	82	2.485
QM	2	WAGYLG AHL	62	1.887
QM	3	NAVNFTDGL	179	1.887
QM	4	VRDPLDLAL	225	1.887

ALLELE: HLA-Cw*0702				
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Threshold for 4 % with score: 1.212				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLAPVLFVL	160	1.905
QM	2	ASGLLVLGL	82	1.569
QM	3	VRDPLDLAL	225	1.394
QM	4	WAGYLG AHL	62	0.971

ALLELE: H2-Db				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	WAGYLG AHL	62	1.000
ANNs+QM	2	LQFRNAAGL	135	1.000
ANNs+QM	3	SAWSNAVNF	175	1.000
ANNs+QM	4	LAGIWAGYL	58	0.970

ALLELE: H2-Dd				
Threshold for 4 % with score: 11.800				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	SAWSNAVNF	175	14.260
QM	2	SVTSRTEIL	273	13.910
QM	3	VGQITSAVL	121	13.270
QM	4	VREIATVTL	153	11.580

ALLELE: H2-Kb				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	NACVTAPGL	212	0.970
ANNs+QM	2	VRDPLDLAL	225	0.960
ANNs+QM	3	EGIGASGLL	78	0.950

ANNs+QM	4	LVLGLATAL	86	0.920
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ALLELE: H2-Kd				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ATVTLAPVL	157	0.970
ANNs+QM	2	NACVTAPGL	212	0.960
ANNs+QM	3	LQFRNAAGL	135	0.940
ANNs+QM	4	LAGIWAGYL	58	0.930

ALLELE: H2-Kk				
Threshold for 4 % with score: 1.609				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RDPLDLALI	226	3.912
QM	2	GEGIGASGL	77	3.689
QM	3	TALGGVGF	92	2.303
QM	4	GSLALGGVI	261	2.303

ALLELE: H2-Ld				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	ASGLLVLGL	82	1.000
ANNs+QM	2	YNVRDPLDL	223	1.000
ANNs+QM	3	ATALGGVGF	91	0.800
ANNs+QM	4	IGASGLLVL	80	0.770

ALLELE: HLA-G				
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Threshold for 4 % with score: 9.260				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	ALIAAATAG	232	13.400
QM	2	YLG AHLAGL	65	12.180
QM	3	VREIATVTL	153	11.980
QM	4	TLAPVLFVL	160	10.850

ALLELE: H-2Qa				
Threshold for 4 % with score: 6.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLAPVLFVL	160	12.710
QM	2	LQFRNAAGL	135	7.800
QM	3	YNVRDPLDL	223	6.470
QM	4	YLG AHLAGL	65	6.460

ALLELE: HLA-B*2706				
Threshold for 4 % with score: 5.000				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	RGTPSMGGV	47	4.870
QM	2	IFMGDTGSL	255	4.870
QM	3	NAVNF TDGL	179	3.670
QM	4	SLALGGVIA	262	3.660

ALLELE: HLA-B35				
Threshold for 4 % with score: 8.350				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	NACVTAPGL	212	10.490
QM	2	TLAPVLFVL	160	10.180
QM	3	VAVTVSILL	10	7.840

QM	4	IKIRRSRNL	104	7.220
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ALLELE: Mamu-A*01				
Threshold for 4 % with score: 3.650				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VAEITSVVL	290	3.860
QM	2	SVTSRTEIL	273	2.450
QM	3	VAVTVSILL	10	1.780
QM	4	IKIRRSRNL	104	1.450

ALLELE: HLA-A*0204				
Threshold for 4 % with score: 12.070				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TLAPVLFVL	160	18.350
QM	2	ILIAVAVAV	4	17.000
QM	3	YLG AHLAGL	65	15.840
QM	4	DLALIAAAT	230	14.130

ALLELE: HLA-B*2703				
Threshold for 4 % with score: 5.130				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VREIATVTL	153	8.170
QM	2	VRDPLDLAL	225	6.230
QM	3	ATALGGVGF	91	4.490
QM	4	GQITSAVLF	122	2.500

ALLELE: HLA-B*2704				
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Threshold for 4 % with score: 8.790				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	VRDPLDLAL	225	13.440
QM	2	YLG AHLAGL	65	12.680
QM	3	WAGYLG AHL	62	10.400
QM	4	VREIATVTL	153	8.300

ALLELE: HLA-B*2902				
Threshold for 4 % with score: 7.750				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	TEILAVVLG	278	13.850
QM	2	GEGIGASGL	77	12.070
QM	3	REIATVTLA	154	9.480
QM	4	LAFDGEGIG	73	6.850

ALLELE: HLA-A*3301				
Threshold for 4 % with score: 3.840				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	LQFRNAAGL	135	3.540
QM	2	LIAAATAGA	233	2.380
QM	3	GIGASGLLV	79	1.850
QM	4	TLAPVLFVL	160	1.830

ALLELE: HLA-B44				
Threshold for 4 % with score: 4.900				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
QM	1	GEGIGASGL	77	10.800
QM	2	REIATVTLA	154	8.270
QM	3	TEILAVVLG	278	7.620

QM	4	ATALGGVGF	91	6.860
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ALLELE: HLA-A*6801				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	AVAVAVTVS	7	0.910
ANNs+QM	2	ALIAAATAG	232	0.890
ANNs+QM	3	SAWSNAVNF	175	0.760
ANNs+QM	4	EGIGASGLL	78	0.650

ALLELE: HLA-A*6802				
Threshold for 4 % with score: 4				
Prediction method	Rank	Sequence	Residue No.	Peptide Score
ANNs+QM	1	TAITCGLGV	338	0.990
ANNs+QM	2	ATALGGVGF	91	0.980
ANNs+QM	3	QILIAVAVA	3	0.970
ANNs+QM	4	AVAVAVTVS	7	0.970