

4	<i>MTERFD2</i>	p.F263Y	4-IMP18	SVLREDLGQLEYKYQYAYFRMGIKHPD
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>MGA</i>	p.N2653D	4-IMP17	PENDDLFMMPRIVDVTSLATEGG
4	<i>SSB</i>	p.K134E	4-IMP09	TLDDIKEWLEDEGQVLNIQMRRTLHK
4	<i>SSB</i>	p.K134E	4-IMP09	TLDDIKEWLEDEGQVLNIQMRRTLHK
4	<i>SSB</i>	p.K134E	4-IMP09	TLDDIKEWLEDEGQVLNIQMRRTLHK
4	<i>SSB</i>	p.K134E	4-IMP09	TLDDIKEWLEDEGQVLNIQMRRTLHK
4	<i>SSB</i>	p.K134E	4-IMP09	TLDDIKEWLEDEGQVLNIQMRRTLHK
4	<i>PATL1</i>	p.F288Y	4-IMP30	GRMSPSQFARVPGYVGSPLAAMNPK
4	<i>PATL1</i>	p.F288Y	4-IMP30	GRMSPSQFARVPGYVGSPLAAMNPK
4	<i>PATL1</i>	p.F288Y	4-IMP30	GRMSPSQFARVPGYVGSPLAAMNPK
4	<i>PATL1</i>	p.F288Y	4-IMP30	GRMSPSQFARVPGYVGSPLAAMNPK
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>SMCHD1</i>	p.G425E	4-IMP07	KAHVEGDGVVEEIIRYHPFLYDRET
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>TNR</i>	p.R1007W	4-IMP21	DGVSEEFWLDLLPSTHYT
4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG
4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG
4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG

4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG
4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG
4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG
4	<i>ATF7IP</i>	p.P1205L	4-IMP10	DSYHLYAYHEELSATVPSQWKKIG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>IDH2</i>	p.R188W	4-IMP14	GDQYKATDFVADWAGTFKMVFTPKDGSG
4	<i>MMP17</i>	p.G511E	4-IMP23	EYWKVLDGELEVAPEYPQSTARDWL
4	<i>MMP17</i>	p.G511E	4-IMP23	EYWKVLDGELEVAPEYPQSTARDWL
4	<i>MMP17</i>	p.G511E	4-IMP23	EYWKVLDGELEVAPEYPQSTARDWL
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RNF40</i>	p.P584L	4-IMP12	TTTSVKKEELVLSEEDFQGITPGAQ
4	<i>RPTOR</i>	p.S755F	4-IMP08	SLTEESGGAVAFFPGNLSTSSSA
5	<i>FAM200A</i>	p.S116F	5-IMP05	KLRTIPLSDNTIFRRICTIAKHLE
5	<i>FAM200A</i>	p.S116F	5-IMP05	KLRTIPLSDNTIFRRICTIAKHLE
5	<i>FAM200A</i>	p.S116F	5-IMP05	KLRTIPLSDNTIFRRICTIAKHLE
5	<i>FAM200A</i>	p.S116F	5-IMP05	KLRTIPLSDNTIFRRICTIAKHLE
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>MUC5B</i>	NeoORF	5-IMP01	SHHTHSYQRYSHPLFLPGHRLDPPI
5	<i>PSMB7</i>	p.P158L	5-IMP17	DVTGPHLYSIYLHGSTDKLPYVTMGS
5	<i>PSMB7</i>	p.P158L	5-IMP17	DVTGPHLYSIYLHGSTDKLPYVTMGS
5	<i>PSMB7</i>	p.P158L	5-IMP17	DVTGPHLYSIYLHGSTDKLPYVTMGS
5	<i>PSMB7</i>	p.P158L	5-IMP17	DVTGPHLYSIYLHGSTDKLPYVTMGS

5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PDIA6</i>	p.P290S	5-IMP14	NQVLASRYGIRGFSTIKIFQKGESPV
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
5	<i>PIK3R2</i>	p.E5K	5-IMP24	MAGPKGFQYRALYPFRER
6	<i>FAM50B</i>	p.E78K	6-IMP18	VTLNDMKARQKALVRERERQLA
6	<i>FAM50B</i>	p.E78K	6-IMP18	VTLNDMKARQKALVRERERQLA
6	<i>MLL</i>	p.P3239L	6-IMP06	SRLQTRKNKKLALSSTPSNIAPSD
6	<i>MLL</i>	p.P3239L	6-IMP06	SRLQTRKNKKLALSSTPSNIAPSD
6	<i>MLL</i>	p.P3239L	6-IMP06	SRLQTRKNKKLALSSTPSNIAPSD
6	<i>MLL</i>	p.P3239L	6-IMP06	SRLQTRKNKKLALSSTPSNIAPSD
6	<i>MLL</i>	p.P3239L	6-IMP06	SRLQTRKNKKLALSSTPSNIAPSD
6	<i>MLL</i>	p.P3239L	6-IMP06	SRLQTRKNKKLALSSTPSNIAPSD
6	<i>RALGAPB</i>	NeoORF	6-IMP02	LNTGLFRIKFKEPLENLI
6	<i>RALGAPB</i>	NeoORF	6-IMP02	LNTGLFRIKFKEPLENLI
6	<i>RALGAPB</i>	NeoORF	6-IMP02	LNTGLFRIKFKEPLENLI
6	<i>RALGAPB</i>	NeoORF	6-IMP02	LNTGLFRIKFKEPLENLI
6	<i>SMC4</i>	p.L1262F	6-IMP17	SLRNNMFEISDRFIGIYKTYNITK
6	<i>SMC4</i>	p.L1262F	6-IMP17	SLRNNMFEISDRFIGIYKTYNITK
6	<i>SMC4</i>	p.L1262F	6-IMP17	SLRNNMFEISDRFIGIYKTYNITK
6	<i>SMC4</i>	p.L1262F	6-IMP17	SLRNNMFEISDRFIGIYKTYNITK
6	<i>SMC4</i>	p.L1262F	6-IMP17	SLRNNMFEISDRFIGIYKTYNITK
6	<i>SMC4</i>	p.L1262F	6-IMP17	SLRNNMFEISDRFIGIYKTYNITK
6	<i>DNMT3A</i>	p.E865K	6-IMP07	WCTEMKRVFGFPVHYTDVSNMS
6	<i>PDE1C</i>	p.L121F	6-IMP19	VKQLERGEASVDFKKNLEYAAT
6	<i>PDE1C</i>	p.L121F	6-IMP19	VKQLERGEASVDFKKNLEYAAT
6	<i>PDE1C</i>	p.L121F	6-IMP19	VKQLERGEASVDFKKNLEYAAT
6	<i>TEX2</i>	p.P207L	6-IMP25	STEVEPKESPHLARHRHLMKTLVKSLST
6	<i>TEX2</i>	p.P207L	6-IMP25	STEVEPKESPHLARHRHLMKTLVKSLST
6	<i>TSHR</i>	p.G464R	6-IMP12	LMSNLAFADFCMRMYL
6	<i>TSHR</i>	p.G464R	6-IMP12	LMSNLAFADFCMRMYL
6	<i>KRIT1</i>	p.R600C	6-IMP21	TKLKSAPHWTNCILHEYKNLSTS
6	<i>KRIT1</i>	p.R600C	6-IMP21	TKLKSAPHWTNCILHEYKNLSTS
6	<i>KRIT1</i>	p.R600C	6-IMP21	TKLKSAPHWTNCILHEYKNLSTS
6	<i>MGAT4B</i>	p.P458L	6-IMP16	PAAGDFIRFRFFQLRLRERFF
6	<i>MGAT4B</i>	p.P458L	6-IMP16	PAAGDFIRFRFFQLRLRERFF
6	<i>MGAT4B</i>	p.P458L	6-IMP16	PAAGDFIRFRFFQLRLRERFF
6	<i>MGAT4B</i>	p.P458L	6-IMP16	PAAGDFIRFRFFQLRLRERFF

peptides for Patients 1-6

Binding Peptide	HLA allele	Prediction method	Percentile rank
LAKKLFVTLVFRHG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.64
AKKLFVTLVFRHGD	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.84
VLAKKLFVTLVFRH	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	2.01
KKLFVTLVFRHGDR	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	2.01
KLKLVTLVFRHGDRS	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.27
SVLAKKLFVTLVFR	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	4.4
LKFVTLVFRHGDRSP	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	5.79
RSVLAKKLFVTLVF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	7.53
LAKKLFVTLVFRHG	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.02
AKKLFVTLVFRHGD	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.02
KKLFVTLVFRHGDR	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.02
KLKLVTLVFRHGDRS	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.94
LKFVTLVFRHGDRSP	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	9.12
KLKLVTLVFRHGDRS	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	9.16
SVLAKKLFVTLVFR	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	9.22
VLAKKLFVTLVFRH	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	9.28
KKLFVTLVFRHGDR	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	9.56
KKKWLFLQDSKKIQV	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.05
KKWLFLQDSKKIQVE	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.51
SKKKWLFLQDSKKIQ	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.56
NSKKWLFLQDSKKI	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.22
KKKWLFLQDSKKIQV	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.37
SKKKWLFLQDSKKIQ	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.47
NSKKWLFLQDSKKI	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.68
KWLFLQDSKKIQVEQ	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	3.68
KKWLFLQDSKKIQVE	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	5.02
NNSKKWLFLQDSKK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	5.69
WLFLQDSKKIQVEQP	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	8.31
KWLFLQDSKKIQVEQ	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	8.37
SPIKLVQKVASKIPF	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	5.53
IKLVQKVASKIPFPD	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	5.53
PIKLVQKVASKIPFP	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	6.11
HTELERFLEYLPLRF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.36
VILLHTELERFLEYL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.67
LLHTELERFLEYLPL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.74
LHTELERFLEYLPLR	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.86
ILLHTELERFLEYLP	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.92
QVILLHTELERFLEY	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.12
RQVILLHTELERFLE	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.67
KRQVILLHTELERFL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.76
KRQVILLHTELERFL	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.32
RQVILLHTELERFLE	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.38

TKRQVILLHTELERF	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.54
TKRQVILLHTELERF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	4.07
QVILLHTELERFLEY	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.28
VILLHTELERFLEYL	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	9.49
KRQVILLHTELERFL	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	9.59
LLHTELERFLEYLPL	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	9.76
VILLHTELERFLEYL	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	9.79
RQVILLHTELERFLE	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	9.83
HTQTTLFHTFYELLI	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.05
TQTTLFHTFYELLIQ	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.05
QTTLFHTFYELLIQK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.05
TTLFHTFYELLIQKN	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.06
SHTQTTLFHTFYELL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.07
TLFHTFYELLIQKNK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.08
LFHTFYELLIQKNKH	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.32
FHTFYELLIQKNKHK	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.89
FHTFYELLIQKNKHK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	2.93
FHTFYELLIQKNKHK	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.36
LFHTFYELLIQKNKH	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	6.09
TLFHTFYELLIQKNK	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	6.1
TTLFHTFYELLIQKN	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	7.57
RLVLGKFGDLTNNFS	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.33
LVLGKFGDLTNNFSS	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.33
VLGKFGDLTNNFSSP	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.33
LGKFGDLTNNFSSPH	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.33
GKFGDLTNNFSSPHA	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.33
KFGDLTNNFSSPHAR	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	1.9
RLVLGKFGDLTNNFS	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	2.44
LVLGKFGDLTNNFSS	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	2.44
VLGKFGDLTNNFSSP	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	2.44
LGKFGDLTNNFSSPH	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	2.44
GKFGDLTNNFSSPHA	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	2.44
KFGDLTNNFSSPHAR	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.39
SPREEFLRLCKKIMM	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
PREEFLRLCKKIMMR	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
REEFLRLCKKIMMRS	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
EEFLRLCKKIMMRSI	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
EFLRLCKKIMMRSIQ	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
STANYNSFSSAPMPQ	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	0.09
TANYNSFSSAPMPQI	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	0.09
ANYNSFSSAPMPQIP	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	0.09
PSTANYNSFSSAPMP	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	0.14
NYNSFSSAPMPQIPV	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	0.48
YNSFSSAPMPQIPVA	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	0.54
PSTANYNSFSSAPMP	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.08
STANYNSFSSAPMPQ	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.08
TANYNSFSSAPMPQI	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.08

ANYNSFSSAPMPQIP	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.08
NYNSFSSAPMPQIPV	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.08
YNSFSSAPMPQIPVA	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	3.08
SAPMPQIPVASVTPT	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	6.97
FSSAPMPQIPVASVT	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.16
SFSSAPMPQIPVASV	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	8.24
SSAPMPQIPVASVTP	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	9.17
CPREEFLRLCKKIMM	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
PREEFLRLCKKIMMR	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
REEFLRLCKKIMMRS	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
EEFLRLCKKIMMRSI	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
EFLRLCKKIMMRSIQ	HLA-DRB1*04:04	Consensus (smm/nn/sturniolo)	7.05
SGIPENSFNVSSLVE	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	6.15
VGDFSQEFSPIQEAQ	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	2.05
RVSVGDFSQEFSPIQ	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.16
VSVGDFSQEFSPIQE	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.16
SVGDFSQEFSPIQEA	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.16
VGDFSQEFSPIQEAQ	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.16
GDFSQEFSPIQEAQQ	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	2.16
GDFSQEFSPIQEAQQ	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	2.22
DFSQEFSPIQEAQQD	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	2.32
VSVGDFSQEFSPIQEA	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	2.46
VSVGDFSQEFSPIQE	HLA-DQA1*03:01/DQB1*03:02	Consensus (comb.lib./smm/nn)	4.57
DFSQEFSPIQEAQQD	HLA-DRB1*04:01	Consensus (smm/nn/sturniolo)	5.77
GRTQLLWTPAAPTAM	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	2.51
RTQLLWTPAAPTAMA	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	2.91
PAGRTQLLWTPAAPT	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	3.45
AGRTQLLWTPAAPTA	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	3.55
TQLLWTPAAPTAMAE	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	4.28
QLLWTPAAPTAMAEV	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	5.21
LLWTPAAPTAMAEVG	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	7.15
QIKLADFRLARLYSS	HLA-DRB1*11:04	sturniolo	1.41
IKLADFRLARLYSSE	HLA-DRB1*11:04	sturniolo	1.41
KLADFRLARLYSSEE	HLA-DRB1*11:04	sturniolo	1.41
LADFRLARLYSSEES	HLA-DRB1*11:04	sturniolo	1.41
ADFRLARLYSSEESR	HLA-DRB1*11:04	sturniolo	1.41
QIKLADFRLARLYSS	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	3.92
RGQIKLADFRLARLY	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	3.93
GQIKLADFRLARLYS	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	3.93
IKLADFRLARLYSSE	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	4.95
KLADFRLARLYSSEE	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	8.33
QIKLADFRLARLYSS	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	9.23
RGQIKLADFRLARLY	HLA-DRB1*11:04	sturniolo	9.34
GQIKLADFRLARLYS	HLA-DRB1*11:04	sturniolo	9.34
KLADFRLARLYSSEE	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	9.74
IKLADFRLARLYSSE	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	9.79
LADFRLARLYSSEES	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	9.84

PSAAGPVRLKPGGLVP	HLA-DRB1*11:04	sturniolo	2.3
SAAGPVRLKPGGLVPG	HLA-DRB1*11:04	sturniolo	2.3
AAGPVRLKPGGLVPG	HLA-DRB1*11:04	sturniolo	2.3
AAVRPEQRPAARGSR	HLA-DRB1*11:04	sturniolo	3.57
AVRPEQRPAARGSRV	HLA-DRB1*11:04	sturniolo	3.57
TFPKKIQMLARDFLD	HLA-DRB1*11:04	sturniolo	6.37
FPKKIQMLARDFLDE	HLA-DRB1*11:04	sturniolo	6.37
PKKKIQMLARDFLDEY	HLA-DRB1*11:04	sturniolo	6.37
PKKKIQMLARDFLDEY	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	8.92
PETGEIQVKTFLDRE	HLA-DRB1*11:04	sturniolo	9.34
ETGEIQVKTFLDREQ	HLA-DRB1*11:04	sturniolo	9.34
TGEIQVKTFLDREQR	HLA-DRB1*11:04	sturniolo	9.34
GEIQVKTFLDREQRE	HLA-DRB1*11:04	sturniolo	9.34
EIQVKTFLDREQRES	HLA-DRB1*11:04	sturniolo	9.34
IQVKTFLDREQRESY	HLA-DRB1*11:04	sturniolo	9.34
ITDAHELGVAAHPPGY	HLA-DRB1*11:04	sturniolo	8.81
EVVGGYTWPSTGNIYQ	HLA-DRB1*11:04	sturniolo	3.58
VVGGYTWPSTGNIYQG	HLA-DRB1*11:04	sturniolo	3.58
TIKNSDKNVVLEHFG	HLA-DRB1*11:04	sturniolo	8.29
RNSFALVPSLQRLML	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	1.72
TRNSFALVPSLQRLM	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	2.27
RNSFALVPSLQRLML	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	2.38
NSFALVPSLQRLMLR	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	2.44
SFALVPSLQRLMLRK	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	3.1
NSFALVPSLQRLMLR	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.34
FALVPSLQRLMLRKV	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	3.35
SFALVPSLQRLMLRK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.71
TRNSFALVPSLQRLM	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	4.02
FALVPSLQRLMLRKV	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	4.95
SLQRLMLRKVALKNV	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.34
LQRLMLRKVALKNVD	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.34
QRLMLRKVALKNVDS	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.34
RLMLRKVALKNVDSS	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.34
LMLRKVALKNVDSSP	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.34
VPSLQRLMLRKVALK	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.36
PSLQRLMLRKVALKN	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.76
RNSFALVPSLQRLML	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	7.47
TRNSFALVPSLQRLM	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	8.17
NSFALVPSLQRLMLR	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	8.17
YKFSKPALQSQSISL	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	2.05
SSHYKFSKPALQSQS	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	3.12
KFSKPALQSQSISLV	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	3.35
SHYKFSKPALQSQSI	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	3.59
HYKFSKPALQSQSIS	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	4.51
FSKPALQSQSISLVQ	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	4.73
SKPALQSQSISLVQQ	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	7
SHYKFSKPALQSQSI	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	8.47

SSHFKSPALQSQS	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	9.11
HYKFSKPALQSQSIS	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	9.11
ETVNHYYLLFQNTDL	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	3.35
TVNHYYLLFQNTDLG	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.08
VNHYYLLFQNTDLGS	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	6.58
NHHYYLLFQNTDLGSF	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	7.17
ETVNHYYLLFQNTDL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	7.44
NHHYYLLFQNTDLGSF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	8.33
TVNHYYLLFQNTDLG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	8.36
VNHYYLLFQNTDLGS	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	8.37
TVNHYYLLFQNTDLG	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	8.68
ETVNHYYLLFQNTDL	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	8.76
LFQNTDLGSFHDLR	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	8.85
VNHYYLLFQNTDLGS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	8.88
HYYLLFQNTDLGSFH	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	9.73
HYYLLFQNTDLGSFH	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	9.78
DRASFLLDYALSPD	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.57
RASFLLDYALSPDG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.91
DRASFLLDYALSPD	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	2.24
RASFLLDYALSPDG	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	2.61
ASFLLDYALSPDGS	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.41
ASFLLDYALSPDGS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./simm/nn)	4.69
SFLLDYALSPDGS	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	4.9
ERFWRNILLSLHKG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.77
RFWRNILLSLHKG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	3.36
WRNILLSLHKGSLY	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	4.19
ERFWRNILLSLHKG	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.85
RFWRNILLSLHKG	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	5.85
RNILLSLHKGSLYP	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	6.12
FWRNILLSLHKGSL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	8.61
NILLSLHKGSLYPR	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	9
AGAVRTLLSQVNKVW	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	10
SLLRAAFFGKCFDR	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	0.79
KLLRAAFFGKCFD	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	1.82
QKLLRAAFFGKCF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	2.1
MQKLLRAAFFGKCF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	4.4
DMQKLLRAAFFGK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	6.49
PDMQKLLRAAFFGK	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIpan	9.43
GRELRFNLIANQHLL	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.06
RELRFNLIANQHLLA	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.06
ELRFNLIANQHLLAP	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.08
LRFNLIANQHLLAPG	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.11
RGRELRFNLIANQHL	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.13
RFNLIANQHLLAPGF	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.21
FNLIANQHLLAPGFV	HLA-DRB1*07:01	Consensus (comb.lib./simm/nn)	0.43
RELRFNLIANQHLLA	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	0.96
ELRFNLIANQHLLAP	HLA-DRB1*01:01	Consensus (comb.lib./simm/nn)	1.15

GRELRFNLIANQHLL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	1.24
LRFNLIANQHLLAPG	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	1.62
RGRELRFNLIANQHLL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	2.28
RFNLIANQHLLAPGF	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	4.57
FNLIANQHLLAPGFV	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	4.95
RELRFNLIANQHLLA	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	6.29
ELRFNLIANQHLLAP	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	7.44
GRELRFNLIANQHLL	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	8.07
LRFNLIANQHLLAPG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	9.47
DANLRKLNFRFLFVIR	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	2.99
LDANLRKLNFRFLFVI	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	3.34
ANLRKLNFRFLFVIRG	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	3.41
NLRKLNFRFLFVIRGQ	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	4.13
DLNLRKLNFRFLFV	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	4.97
LRKLNFRFLFVIRGQP	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	5.37
RKLNFRFLFVIRGQPA	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	6.99
KLNFRFLFVIRGQPAD	HLA-DRB1*07:01	Consensus (comb.lib./smm/nn)	6.99
RKLNFRFLFVIRGQPA	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	8.76
EDLDANLRKLNFRFLF	HLA-DPA1*01:03/DPB1*04:01	NetMHCIIPan	9.38
GKIHLFEAEFTQVAK	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.09
KIHLFEAEFTQVAKK	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.09
LPGKIHLFEAEFTQV	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.1
PGKIHLFEAEFTQVA	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.1
IHLFEAEFTQVAKKE	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.11
HLFEAEFTQVAKKEP	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.63
KIHLFEAEFTQVAKK	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	4.16
GKIHLFEAEFTQVAK	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	4.37
PGKIHLFEAEFTQVA	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	5.22
KLPGKIHLFEAEFTQ	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	5.73
IHLFEAEFTQVAKKE	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	7.11
LPGKIHLFEAEFTQV	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	7.16
QKLPGKIHLFEAEFT	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	7.9
YMASEVVEVFTDQAT	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	7.01
QLEYKYQYAYFRMGI	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.06
LEYKYQYAYFRMGIK	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.06
EYKYQYAYFRMGIKH	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.06
YKYQYAYFRMGIKHP	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.1
GQLEYKYQYAYFRMG	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.12
QLEYKYQYAYFRMGI	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.16
LEYKYQYAYFRMGIK	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.16
EYKYQYAYFRMGIKH	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.19
GQLEYKYQYAYFRMG	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.25
YKYQYAYFRMGIKHP	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.32
LGQLEYKYQYAYFRM	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.63
KYQYAYFRMGIKHPD	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	0.76
KYQYAYFRMGIKHPD	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	1.16
LGQLEYKYQYAYFRM	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	2.93

DLGQLEYKYQYAYFR	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	3.58
ENDDLFMMPRIVDVT	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	6.29
NDDLFMMPRIVDVTS	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	6.29
DDLFMMPRIVDVTSLS	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	6.46
PENDDLFMMPRIVDV	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	6.64
DLFMMPRIVDVTSLSA	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	7.24
DDLFMMPRIVDVTSLS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	7.57
NDDLFMMPRIVDVTS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	7.62
ENDDLFMMPRIVDVT	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	7.9
LFMMPRIVDVTSLAT	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	9.04
LDDIKEWLEDEGQVL	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	4.41
TLDDIKEWLEDEGQV	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	4.49
DDIKEWLEDEGQVLN	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	5.41
DIKEWLEDEGQVLNI	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.23
IKEWLEDEGQVLNIQ	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	8.86
PSQFARVPGYVGSPL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	4.47
SQFARVPGYVGSPLA	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	6.17
MSPSQFARVPGYVGS	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	7.99
SPSQFARVPGYVGS	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	8.96
VVEIIRYHPFLYDR	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	1.24
VVEIIRYHPFLYDRE	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	1.24
GVVEIIRYHPFLYD	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	1.64
EVIIRYHPFLYDRET	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	1.66
VVEIIRYHPFLYDRE	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	3.26
VVEIIRYHPFLYDR	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	3.48
EVIIRYHPFLYDRET	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	3.56
GVVEIIRYHPFLYD	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	4.64
DGVVEIIRYHPFLY	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	6.84
DGVVEIIRYHPFLY	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	8.41
DGVSEEFWLVDLLPS	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.36
GVSEEFWLVDLLPST	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	0.41
VSEEFWLVDLLPSTH	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	0.69
GVSEEFWLVDLLPST	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	0.71
DGVSEEFWLVDLLPS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	0.74
SEEFWLVDLLPSTHY	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	0.92
EEFWLVDLLPSTHYT	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	1.5
VSEEFWLVDLLPSTH	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	2.04
SEEFWLVDLLPSTHY	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	2.9
EEFWLVDLLPSTHYT	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	3.74
VSEEFWLVDLLPSTH	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	4
SEEFWLVDLLPSTHY	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	4.19
GVSEEFWLVDLLPST	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	4.38
DGVSEEFWLVDLLPS	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	5.18
EEFWLVDLLPSTHYT	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIPan	5.45
DSYHLYAYHEELSAT	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	1.83
SYHLYAYHEELSATV	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	2.04
YHLYAYHEELSATVP	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	2.71

HLAYHEELSATVPS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	4.98
LYAYHEELSATVPSQ	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	7.95
SYHLYAYHEELSATV	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIpan	8.92
DSYHLYAYHEELSAT	HLA-DPA1*01:03/DPB1*04:02	NetMHCIIpan	9.43
QYKATDFVADWAGTF	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	2.41
DQYKATDFVADWAGT	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	2.71
YKATDFVADWAGTFK	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	2.9
GDQYKATDFVADWAG	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	3.19
KATDFVADWAGTFKM	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	4.14
ATDFVADWAGTFKMOV	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.02
TDFVADWAGTFKMOV	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	9.04
DFVADWAGTFKMOVFT	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	9.52
GDQYKATDFVADWAG	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	9.84
EYWKVLDGELEVAPE	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	3.47
YWKVLDGELEVAPEY	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	3.47
WKVLDGELEVAPEYP	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	3.47
KEELVLSEEDFQGIT	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	4.62
KKEELVLSEEDFQGI	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	4.99
EELVLSEEDFQGITP	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	5.04
VKKEELVLSEEDFQG	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	5.68
KKEELVLSEEDFQGI	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	5.68
KEELVLSEEDFQGIT	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	5.68
EELVLSEEDFQGITP	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	5.68
ELVLSEEDFQGITPG	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	5.96
ELVLSEEDFQGITPG	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.09
SVKKEELVLSEEDFQ	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.88
LVLSEEDFQGITPGA	HLA-DPA1*01:03/DPB1*02:01	Consensus (comb.lib./smm/nn)	8.5
LVLSEEDFQGITPGA	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	9.36
GGAVAFFPGNLSTSS	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	8.66
DNTIFRRICTIAKHL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.04
NTIFRRICTIAKHLE	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.04
LSDNTIFRRICTIAK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.05
SDNTIFRRICTIAKH	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.05
RYSHPLFLPGHRLDP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	5.07
YSHPLFLPGHRLDPP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	5.07
SHPLFLPGHRLDPPI	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	5.07
SHHHSYQRYSHPLF	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
HHTHSYQRYSHPLFL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
HHSYQRYSHPLFLP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
THSYQRYSHPLFLPG	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
HSYQRYSHPLFLPGH	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
SYQRYSHPLFLPGHR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
YQRYSHPLFLPGHRL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.54
VTGPHLYSIYLGST	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.41
TGPHLYSIYLGSTD	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.41
GPHLYSIYLGSTDK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.41
PHLYSIYLGSTDKL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.41

HLYSIYLGSTDKLP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.41
DVTGPHLYSIYLGHS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	3.08
LYSIYLGSTDKLPY	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	3.79
PVIFKSIMRQLISP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.31
YPVIFKSIMRQLIS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.48
VIFKSIMRQLISPQ	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.52
SKEYPVIFKSIMRQR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.7
KEYPVIFKSIMRQRL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.7
EYPVIFKSIMRQRLI	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.7
IFKSIMRQRLISPQL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.76
QSKEYPVIFKSIMRQ	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.28
RLQSKEYPVIFKSIM	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	6.23
LQSKEYPVIFKSIMR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	6.23
HYDYVSALHPVSTPS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.09
THYDYVSALHPVSTP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.16
YDYVSALHPVSTPSK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.22
HTHYDYVSALHPVST	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.32
DYVSALHPVSTPSKE	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.52
LHTHYDYVSALHPVS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.78
YVSALHPVSTPSKEY	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.78
VSALHPVSTPSKEYT	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	5.41
SALHPVSTPSKEYTS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	6.08
HTHYDYVSALHPVST	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	7.48
THYDYVSALHPVSTP	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	9.01
SDAFSGLTALPQSIL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.62
DAFSGLTALPQSILL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.62
AFSGLTALPQSILLF	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.75
FSGLTALPQSILLFG	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.75
SDAFSGLTALPQSIL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	3.72
DAFSGLTALPQSILL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	3.72
AFSGLTALPQSILLF	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	6.65
FSGLTALPQSILLFG	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	6.65
HQIHSYQLYTHPLLH	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	5.73
QIHSYQLYTHPLLHP	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	6.32
SHQIHSYQLYTHPLL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
HQIHSYQLYTHPLLH	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
QIHSYQLYTHPLLHP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
IHSYQLYTHPLLHPW	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
HSYQLYTHPLLHPWD	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
SYQLYTHPLLHPWDH	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
YQLYTHPLLHPWDHR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.06
IHSYQLYTHPLLHPW	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	7.47
SHQIHSYQLYTHPLL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	7.86
STQHADLTIIDNIKE	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09
TQHADLTIIDNIKEM	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09
QHADLTIIDNIKEMN	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09
HADLTIIDNIKEMNF	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09

ADLTIIDNIKEMNFL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09
DLTIIDNIKEMNFLR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09
LTIIDNIKEMNFLRR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	9.09
SLFSPGAANLFSTYL	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	5.03
LFSPGAANLFSTYLA	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	8.78
PSQRTSWEFLQSLVS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.14
SQRTSWEFLQSLVSI	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.14
QRTSWEFLQSLVSIK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.14
RTSWEFLQSLVSIKQ	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.14
TSWEFLQSLVSIKQE	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.14
SWEFLQSLVSIKQEK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.14
RTSWEFLQSLVSIKQ	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	5.4
TSWEFLQSLVSIKQE	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	5.59
QRTSWEFLQSLVSIK	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	5.79
SQRTSWEFLQSLVSI	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	5.92
QRTSWEFLQSLVSIK	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.1
AAFPSQRTSWEFLQS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.58
AFPSQRTSWEFLQSL	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.58
FPSQRTSWEFLQSLV	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.58
PSQRTSWEFLQSLVS	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.58
RTSWEFLQSLVSIKQ	HLA-DQA1*01:01/DQB1*05:01	Consensus (comb.lib./smm/nn)	6.58
SQRTSWEFLQSLVSI	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	8.87
PSQRTSWEFLQSLVS	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	9.63
SWEFLQSLVSIKQEK	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	9.63
FTTVSELMKVSAMSS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.08
TTVSELMKVSAMSSP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.08
TVSELMKVSAMSSPK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.08
VSELMKVSAMSSPKV	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.08
VSELMKVSAMSSPKV	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	3.8
GSVLQFMPFTTVSEL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.1
SVLQFMPFTTVSELM	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.1
VLQFMPFTTVSELMK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.1
LQFMPFTTVSELMKV	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.1
QFMPFTTVSELMKVS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.1
FMPFTTVSELMKVSA	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.1
TVSELMKVSAMSSPK	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	7.41
MPFTTVSELMKVSAM	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.59
PFTTVSELMKVSAMS	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	7.59
FTTVSELMKVSAMSS	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	9.68
DKGHQFHVHPLLHSG	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.67
KGHQFHVHPLLHSGD	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.69
GHQFHVHPLLHSGDD	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.71
HQFHVHPLLHSGDDL	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.88
QFHVHPLLHSGDDLD	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	3.54
FHVHPLLHSGDDLDP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	4.09
IRGFSTIKIFQKGES	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.34
RGFSTIKIFQKGESP	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.34

GFSTIKIFQKGESPV	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.49
YGIRGFSTIKIFQKG	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.66
RYGIRGFSTIKIFQK	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.68
GIRGFSTIKIFQKGE	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.86
SRYGIRGFSTIKIFQ	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.71
LASRYGIRGFSTIKI	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	2.81
ASRYGIRGFSTIKIF	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	3.57
KGFQYRALYPFRER	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	0.78
GPKGFQYRALYPFRR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.2
PKGFQYRALYPFRRE	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	1.2
KGFQYRALYPFRER	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	3.72
PKGFQYRALYPFRRE	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	4.72
GPKGFQYRALYPFRR	HLA-DRB1*01:01	Consensus (comb.lib./smm/nn)	5.5
AGPKGFQYRALYPFR	HLA-DRB1*11:01	Consensus (smm/nn/sturniolo)	8.05
VTLNDMKARQKALVR	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.34
TLNDMKARQKALVRE	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.34
KNKKLALSSTPSNIA	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.64
NKKLALSSTPSNIAP	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.96
KKLALSSTPSNIAPS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.96
RKNKKLALSSTPSNI	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.06
KLALSSTPSNIAPSD	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.33
TRKNKKLALSSTPSN	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.97
LNTGLFRIKFKEPLE	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.62
NTGLFRIKFKEPLEN	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.62
TGLFRIKFKEPLENL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.62
GLFRIKFKEPLENLI	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.62
RNNMFEISDRFIGIY	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.47
NMFEISDRFIGIYKT	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.47
NNMFEISDRFIGIYK	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.5
LRNNMFEISDRFIGI	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	3.53
MFEISDRFIGIYKTY	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.01
SLRNNMFEISDRFIG	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.16
VFGFPVHYTDVSNMS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.62
GEASVVDFFKKNLEYA	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.96
EASVVDFFKKNLEYAA	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.32
LERGEASVVDFFKKNL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.84
ARHRHLMKTLVKLSL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	1.55
RHRHLMKTLVKSLST	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	1.55
MSNLAFADFCMRMYL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	4.04
LMSNLAFADFCMRMY	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.99
PHWTNCILHEYKNLS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	4.36
HWTNCILHEYKNLST	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	4.36
WTNCILHEYKNLSTS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	4.36
IRFRFFQLRLRERFF	HLA-DQA1*05:01/DQB1*02:01	Consensus (comb.lib./smm/nn)	5.62
FIRFRFFQLRLRERF	HLA-DQA1*05:01/DQB1*02:01	Consensus (comb.lib./smm/nn)	5.71
FIRFRFFQLRLRERF	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18
IRFRFFQLRLRERFF	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18

DFIRFRFFQLRLER	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	9.61
SHTLGAASSFMRPTV	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.06
LSHTLGAASSFMRPT	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.85
VELRRNVLSPTPLA	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	1.28
ELRRNVLSPTPLAN	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	1.28
LLQNVELRRNVLSPT	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.22
ALLQNVELRRNVLS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.58
LQNVELRRNVLSPT	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.67
QNVELRRNVLSPTP	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.44
ESDLNSWPVAPRPLL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.34
SDLNSWPVAPRPLLS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.34
DLNSWPVAPRPLLSV	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.34
GLTRISIQRAQLPP	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.24
LTRISIQRAQLPPC	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.24
TRISIQRAQLPPCL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.24
RISIQRAQLPPCLP	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.24
ISIQRAQLPPCLPS	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	5.24
IQRAQLPPCLPSFR	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.96
SIQRAQLPPCLPSF	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.05
VRLAQLFARARPMGL	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.12
EMDFVRLAQLFARAR	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.7
KPEMDFVRLAQLFAR	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.76
PEMDFVRLAQLFARA	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.76
MDFVRLAQLFARARP	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.84
DFVRLAQLFARARPM	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	2.92
RLAQLFARARPMGLF	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	4.38
GKPEMDFVRLAQLFA	HLA-DQA1*05:01/DQB1*02:01	Consensus (comb.lib./smm/nn)	6.9
KPEMDFVRLAQLFAR	HLA-DQA1*05:01/DQB1*02:01	Consensus (comb.lib./smm/nn)	7.59
TGKPEMDFVRLAQLF	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.65
FVRLAQLFARARPMG	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.09
GKPEMDFVRLAQLFA	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	8.34
PEMDFVRLAQLFARA	HLA-DQA1*05:01/DQB1*02:01	Consensus (comb.lib./smm/nn)	8.38
EMDFVRLAQLFARAR	HLA-DQA1*05:01/DQB1*02:01	Consensus (comb.lib./smm/nn)	8.38
DGAWPVLLDKFVEWY	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18
GAWPVLLDKFVEWYK	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18
AWPVLLDKFVEWYKD	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18
WPVLLDKFVEWYKDK	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18
PVLLDKFVEWYKDKQ	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	6.18
VLLDKFVEWYKDKQM	HLA-DRB1*03:01	Consensus (smm/nn/sturniolo)	7.03