CELL LINE-JESTOM

Allele	Peptide	Modification	Accession	Protein	Confidence	
HLA-DR1	TGKLVSLSAQNLVDCS	[Dioxidation(C)@15]	CATS_HUMAN	Cathepsin S	97.54	-0.0048
HLA-DR1	KTGKLVSLSAQNLVDCS	[Dioxidation(C)@16]	CATS_HUMAN	Cathepsin S	99	-0.0158
HLA-DR1	TGKLVSLSAQNLVDCS	[Glutathione(C)@15]	CATS_HUMAN	Cathepsin S	97.54	-0.0048
HLA-DR1	KTGKLVSLSAQNLVDCS	[Glutathione(C)@16]	CATS_HUMAN	Cathepsin S	99	-0.0021
HLA-DR1	YCGSCWAHASTSAMADRINIK	[Cys->Dha(C)@2; Dioxidation(C)@5]	CATZ_HUMAN	Cathepsin Z	99	-0.0188
HLA-DR1	VTGFKCVTGMSCLMR	[Cys->Dha(C)@6; Dioxidation(C)@12]	CEGT_HUMAN	Ceramide glucosyltransferase	99	-0.0174
HLA-DR1	GRWEFKCQHGEEECKFN	[Cys->Dha(C)@7; Dioxidation(C)@14]	GILT_HUMAN	Gamma-interferon-inducible lysosomal thiol reductase	97.42	-0.0175
HLA-DR1	PLCLQLYAPGLSPDT	[Dehydro(C)@3]	GILT_HUMAN	Gamma-interferon-inducible lysosomal thiol reductase	99	0.0411
HLA-DR1	GRWEFKCQHGEEECKFN	[Dioxidation(C)@7; Cys->Dha(C)@14]	GILT_HUMAN	Gamma-interferon-inducible lysosomal thiol reductase	99	-0.0253
HLA-DR1	YDNSLKIISNASCTTNC	[Cys->Dha(C)@13; Dioxidation(C)@17]	G3P_HUMAN	Glyceraldehyde-3-phosphate dehydrogenase	99	-0.0221
HLA-DR1	AVGSLCALSASLLGSM	[Trioxidation(C)@6]	CTR1_HUMAN	High affinity cationic amino acid transporter 1	95.5	0.0166
HLA-DR1	APCEFGVLNSLANVLSQH	[Trioxidation(C)@3]	DMB_HUMAN	HLA class II histocompatibility antigen, DM beta chain	98.38	-0.0309
HLA-DR1	KGDTFSCMVGHEAL	[Oxidation(C)@7]	IGHA2_HUMAN	Ig alpha-2 chain C region	96.14	0.0053
HLA-DR1	TPVEAQYVRLYPTSCHTACT	[Cys->Dha(C)@15; Dioxidation(C)@19]	MFGM_HUMAN	Lactadherin	99	-0.0203
HLA-DR1	TPVEAQYVRLYPTSCHTAC	[Cys->Dha(C)@15; Dioxidation(C)@19]	MFGM_HUMAN	Lactadherin	99	-0.0297
HLA-DR1	AATQFEPLAARSAFPC	[Glutathione(C)@16]	LCAP_HUMAN	Leucyl-cystinyl aminopeptidase	95.86	-0.0013
HLA-DR1	GCQYLCLPAPQINPH	[Cys->Dha(C)@2; Dioxidation(C)@6]	LDLR_HUMAN	Low-density lipoprotein receptor	98.37	-0.0196
HLA-DR1	GCQYLCLPAPQINPHSPK	[Cys->Dha(C)@2; Dioxidation(C)@6]	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0203
HLA-DR1	FEFHCLSGECIHSS	[Cys->Dha(C)@5; Dioxidation(C)@10]	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0197
HLA-DR1	FEFHCLSGECIHSSW	[Cys->Dha(C)@5; Dioxidation(C)@10]	LDLR_HUMAN	Low-density lipoprotein receptor	94.53	-0.0161
HLA-DR1	AFEFHCLSGECIHSS	[Cys->Dha(C)@6; Dioxidation(C)@11]	LDLR_HUMAN	Low-density lipoprotein receptor	98.62	-0.0185
HLA-DR1	ERNEFQCQDGKCISYK	[Cys->Dha(C)@7; Dioxidation(C)@12]	LDLR_HUMAN	Low-density lipoprotein receptor	94.16	-0.0155
HLA-DR1	SAFEFHCLSGECIHSS	[Cys->Dha(C)@7; Dioxidation(C)@12]	LDLR_HUMAN	Low-density lipoprotein receptor	95.27	-0.0172
HLA-DR1	SAFEFHCLSGECIHSSWR	[Cys->Dha(C)@7; Dioxidation(C)@12]	LDLR_HUMAN	Low-density lipoprotein receptor	96.82	-0.0217
HLA-DR1	SAFEFHCLSGECIHSSW	[Cys->Dha(C)@7; Dioxidation(C)@12]	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0187
HLA-DR1	EFHCLSGECIHSSW	[Glu->pyro-Glu@N-term; Oxidation(C)@9]	LDLR_HUMAN	Low-density lipoprotein receptor	97.61	0.0042
HLA-DR1	SNLYCLKPTICSDQD	[Cys->Dha(C)@5; Dioxidation(C)@11]	LY6E_HUMAN	Lymphocyte antigen 6E	98.83	-0.0201
HLA-DR1	KSNLYCLKPTICSDQD	[Cys->Dha(C)@6; Dioxidation(C)@12]	LY6E_HUMAN	Lymphocyte antigen 6E	96.1	-0.02
HLA-DR1	KSNLYCLKPTICSDQDN	[Cys->Dha(C)@6; Dioxidation(C)@12]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0364
HLA-DR1	KSNLYCLKPTICS	[Cys->Dha(C)@6; Dioxidation(P)@9]	LY6E_HUMAN	Lymphocyte antigen 6E	94.67	-0.0188
HLA-DR1	KSNLYCLKPTICSD	[Cys->Dha(C)@6; Dioxidation(P)@9]	LY6E_HUMAN	Lymphocyte antigen 6E	98.48	-0.0206
HLA-DR1	QKSNLYCLKPTICSDQD	[Cys->Dha(C)@7; Dioxidation(C)@13]	LY6E_HUMAN	Lymphocyte antigen 6E	95.68	-0.0061
HLA-DR1	QKSNLYCLKPTICSDQDN	[Cys->Dha(C)@7; Dioxidation(C)@13]	LY6E_HUMAN	Lymphocyte antigen 6E	97.24	-0.013
HLA-DR1	NQKSNLYCLKPTICSDQD	[Cys->Dha(C)@8; Dioxidation(C)@14]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0134
HLA-DR1	NQKSNLYCLKPTICSDQDN	[Cys->Dha(C)@8; Dioxidation(C)@14]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0175
HLA-DR1	KSNLYCLKPTICSDQDN	[Dioxidation(C)@6; Cys->Dha(C)@12]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0157
HLA-DR1	KSNLYCLKPTICSDQDNY	[Dioxidation(C)@6; Cys->Dha(C)@12]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0197
HLA-DR1	QKSNLYCLKPTICSD	[Gln->pyro-Glu@N-term; Cys->Dha(C)@7; Dioxidation(C)@13]	LY6E_HUMAN	Lymphocyte antigen 6E	95.47	-0.0174
HLA-DR1	QKSNLYCLKPTICSDQD	[Gln->pyro-Glu@N-term; Cys->Dha(C)@7; Dioxidation(C)@13]	LY6E_HUMAN	Lymphocyte antigen 6E	95.68	-0.0061
HLA-DR1	QKSNLYCLKPTICSDQDN	[Gln->pyro-Glu@N-term; Cys->Dha(C)@7; Dioxidation(C)@13]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0262
HLA-DR1	NRLWSSLQTHCCSQNK	[Cys->Dha(C)@11; Dioxidation(C)@12]	PPGB_HUMAN	Lysosomal protective protein	97.4	-0.0119
HLA-DR1	QPPEIRTLEGSSAFLPCS	[Gln->pyro-Glu@N-term; Dioxidation(C)@17]	NCTR3_HUMAN	Natural cytotoxicity triggering receptor 3	99	-0.0139
HLA-DR1	KYILCCLLGHAIHGL	[Cys->Dha(C)@5; Dioxidation(C)@6]	AAAT_HUMAN	Neutral amino acid transporter B(0)	99	-0.0177
HLA-DR1	DCGKIEVEKPFAIAKE	[Dioxidation(C)@2]	PPIB_HUMAN	Peptidyl-prolyl cis-trans isomerase B	99	-0.0026
HLA-DR1	DCGKIEVEKPFAIAKE	[Glutathione(C)@2]	PPIB_HUMAN	Peptidyl-prolyl cis-trans isomerase B	99	0.0068
HLA-DR1	DCGKIEVEKPFAIAK	[Trioxidation(C)@2]	PPIB_HUMAN	Peptidyl-prolyl cis-trans isomerase B	99	-0.0051
HLA-DR1	DCGKIEVEKPFAIAKE	[Trioxidation(C)@2]	PPIB_HUMAN	Peptidyl-prolyl cis-trans isomerase B	97.83	0.0444
HLA-DR1	ADCGKIEVEKPFAIAK	[Trioxidation(C)@3]	PPIB_HUMAN	Peptidyl-prolyl cis-trans isomerase B	98.4	-0.022
HLA-DR1	ADCGKIEVEKPFAIAKE	[Trioxidation(C)@3]	PPIB_HUMAN	Peptidyl-prolyl cis-trans isomerase B	99	-0.0188
HLA-DR1	ATGKMLSLAEQQLVDCAQD	[Cys->Dha(C)@16; Cation:K(D)@19]	CATH_HUMAN	Pro-cathepsin H	99	0.0072

HLA-DR1	ATGKMLSLAEQQLVDCAQDFNNHGCQ	[Cys->Dha(C)@16; Dioxidation(C)@25]	CATH_HUMAN	Pro-cathepsin H	99	-0.0158
HLA-DR1	IATGKMLSLAEQQLVDCAQDFNNHGCQ	[Cys->Dha(C)@17; Dioxidation(C)@26]	CATH_HUMAN	Pro-cathepsin H	99	-0.0232
HLA-DR1	TGKMLSLAEQQLVDCA	[Glutathione(C)@15]	CATH_HUMAN	Pro-cathepsin H	97.9	-0.0142
HLA-DR1	ATGKMLSLAEQQLVDCA	[Glutathione(C)@16]	CATH_HUMAN	Pro-cathepsin H	99	0.0143
HLA-DR1	IATGKMLSLAEQQLVDCAQDFNNHGC	[Oxidation(C)@26]	CATH_HUMAN	Pro-cathepsin H	99	-0.0009
HLA-DR1	ATGKMLSLAEQQLVDCAQ	[Trioxidation(C)@16]	CATH_HUMAN	Pro-cathepsin H	98.46	-0.0154
HLA-DR1	LPVILDIIKGEMSRPGEVCS	[Dioxidation(C)@19]	SAP_HUMAN	Proactivator polypeptide	99	-0.0199
HLA-DR1	IPRFWTFETGCTVCDEGLR	[Cys->Dha(C)@11; Dioxidation(C)@14]	PLOD1_HUMAN	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	99	-0.0212
HLA-DR1	WVKELRKMLGNEICLC	[Cys->Dha(C)@14; Dioxidation(C)@16]	RAB21_HUMAN	Ras-related protein Rab-21	98.52	-0.0024
HLA-DR1	IPADLRIISANGCKVDNS	[Dioxidation(C)@13]	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1	96.85	0.0002
HLA-DR1	STCQIAQEIAEKIQQRN	[Dioxidation(C)@3]	STX8_HUMAN	Syntaxin-8	99	-0.0152
HLA-DR1	STCQIAQEIAEKIQQR	[Dioxidation(C)@3]	STX8_HUMAN	Syntaxin-8	99	-0.0232
HLA-DR1	GVGYVPITGMPAVCS	[Dioxidation(C)@14]	TOLIP_HUMAN	Toll-interacting protein	95.63	-0.021
HLA-DR1	YPKEEELYACQRGCRLFSIC	[Cys->Dha(C)@14; Dioxidation(C)@20]	TMM59_HUMAN	Transmembrane protein 59	99	-0.0224
HLA-DR1	VQKWLLAAGAQKC	[GlnThrGlyGly(C)@13]	TPP1_HUMAN	Tripeptidyl-peptidase 1	97.75	-0.049
HLA-DQ5	DGGNKVVISGFGDPLICDNQVS	[Dioxidation(C)@17]	AGRIN_HUMAN	Agrin	99	-0.025
HLA-DQ5	SGKYLCYFQDGDFYEK	[Dioxidation(C)@6]	BT3A3_HUMAN	Butyrophilin subfamily 3 member A3	98.99	-0.0097
HLA-DQ5	SPEKGAETWFDSYDCSKF	[Trioxidation(C)@15]	CLN5_HUMAN	Ceroid-lipofuscinosis neuronal protein 5	99	0.0051
HLA-DQ5	SPEKGAETWFDSYDCSK	[Trioxidation(C)@15]	CLN5_HUMAN	Ceroid-lipofuscinosis neuronal protein 5	98.73	0.0112
HLA-DQ5	RPKKDMCDLEEFCDGRHP	[Dioxidation(C)@7; Cys->Dha(C)@13]	ADAM8_HUMAN	Disintegrin and metalloproteinase domain-containing prot	99	-0.0167
HLA-DQ5	HLCDFLETHFLDEEVKLIK	[Delta:H(2)C(2)(H)@1; Glutathione(C)@3]	FRIL_HUMAN	Ferritin light chain	99	0.0018
HLA-DQ5	HLCDFLETHFLDEEVK	[Delta:H(2)C(2)(H)@1; Glutathione(C)@3]	FRIL_HUMAN	Ferritin light chain	95.8	0.0042
HLA-DQ5	GPSKAEISCTDNQDGTCSV	[Dioxidation(C)@9; Deamidated(N)@12]	FLNA_HUMAN	Filamin-A	95.87	0.0451
HLA-DQ5	VNSQYHFTDEYLECVS	[Dioxidation(C)@14]	GPC4_HUMAN	Glypican-4	97.15	-0.0011
HLA-DQ5	HPISDHEATLRCWALG	[Cys->Dha(C)@12; Oxidation(W)@13]	1B27_HUMAN	HLA class I histocompatibility antigen, B-27 alpha chain	99	-0.0168
HLA-DQ5	HPDQETYTDYVIPCFDS	[Dioxidation(C)@14]	LPPRC_HUMAN	Leucine-rich PPR motif-containing protein, mitochondrial	98.83	-0.0319
HLA-DQ5	TFDQTAWGDSGVYYCS	[Dioxidation(C)@15]	LSR_HUMAN	Lipolysis-stimulated lipoprotein receptor	94.73	-0.0161
HLA-DQ5	CDRKLGAWVCDRL	[Dioxidation(C)@1; Cys->Dha(C)@10]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	99	-0.0119
HLA-DQ5	SGRWNDAFCDRKLGAWV	[Dioxidation(C)@9]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	94.8	-0.0152
HLA-DQ5	DRKLGAWVCDRL	[Dioxidation(C)@9]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	94.86	-0.0388
HLA-DQ5	CDRKLGAWVCDRLAT	[Dioxidation(R)@3; Cys->Dha(C)@10]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	97.47	-0.0183
HLA-DQ5	SGRWNDAFCDRKLGAWVC	[Oxidation(C)@9]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	99	-0.0413
HLA-DQ5	CDRKLGAWVCDRL	[Trioxidation(C)@1]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	98.57	0.0055
HLA-DQ5	CDRKLGAWVCDRLA	[Trioxidation(C)@1]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	99	0.0021
HLA-DQ5	CDRKLGAWVCDRLAT	[Trioxidation(C)@1]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	99	0.0028
HLA-DQ5	GRWNDAFCDRKLG	[Trioxidation(C)@8]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	94.36	0.013
HLA-DQ5	SGRWNDAFCDRKLGA	[Trioxidation(C)@9]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	96.99	-0.0138
HLA-DQ5	DRKLGAWVCDRLA	[Trioxidation(C)@9]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	97.87	-0.032
HLA-DQ5	ARDCRDWSDEPIK	[Dioxidation(C)@4; Oxidation(R)@5]	LDLR_HUMAN	Low-density lipoprotein receptor	98.88	-0.0002
HLA-DQ5	ARDCRDWSDEPIK	[Trioxidation(C)@4]	LDLR_HUMAN	Low-density lipoprotein receptor	98.88	-0.0002
HLA-DQ5	CSQNKCNFYDNKDLE	[Oxidation(C)@6]	PPGB_HUMAN	Lysosomal protective protein	97.4	-0.0266
HLA-DQ5	IPCKLQSGTHCLWTDQLLQGSE	[Cys->Dha(C)@3; Dioxidation(C)@11]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	95.43	-0.0075
HLA-DQ5	IPCKLQSGTHCLWTDQLLQGSEKGFQSRHL	[Cys->Dha(C)@3; Dioxidation(C)@11]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	99	-0.0129
HLA-DQ5	SIPCKLQSGTHCLWTDQLLQGSE	[Cys->Dha(C)@4; Dioxidation(C)@12]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	99	-0.0136
HLA-DQ5	IPCKLQSGTHCLWTDQLLQGSEKG	[Dioxidation(C)@3; Cys->Dha(C)@11]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	95.17	-0.0172
HLA-DQ5	LQSGTHCLWTDQLLQGSE	[Dioxidation(C)@7]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	96.81	-0.0198
HLA-DQ5	IPCKLQSGTHCLWTDQLLQGSEKG	[Oxidation(C)@3; Dehydrated(T)@9]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	99	0.0118
HLA-DQ5	QSGTHCLWTDQLLQGSE	[Trioxidation(C)@6]	TIMP1_HUMAN	Metalloproteinase inhibitor 1	99	-0.0149
HLA-DQ5	KNEDYFKDLCGPD	[Cys->Dha(C)@10; Cation:K(D)@13]	S43A3_HUMAN	Solute carrier family 43 member 3	96.53	0.012
HLA-DQ5	KNEDYFKDLCGP	[Glutathione(C)@10]	S43A3_HUMAN	Solute carrier family 43 member 3	96.75	0.0001
HLA-DQ5	KNEDYFKDLCGPDAG	[Trioxidation(C)@10]	S43A3_HUMAN	Solute carrier family 43 member 3	96.48	-0.0174

HLA-DQ5	KNEDYFKDLCGPD	[Trioxidation(C)@10]	S43A3_HUMAN	Solute carrier family 43 member 3	97.36	0.0063
HLA-DQ5	KNEDYFKDLCGPDA	[Trioxidation(C)@10]	S43A3_HUMAN	Solute carrier family 43 member 3	96.49	-0.0163
HLA-DQ5	NEDYFKDLCGPDA	[Trioxidation(C)@9]	S43A3_HUMAN	Solute carrier family 43 member 3	97.83	-0.0151
HLA-DQ5	TWVCDGYRDCADGSD	[Cys->Dha(C)@4; Dioxidation(C)@10]	SORL_HUMAN	Sortilin-related receptor	97.68	-0.016
HLA-DQ5	SERCDGFLDCSDESDE	[Cys->Dha(C)@4; Dioxidation(C)@10]	SORL_HUMAN	Sortilin-related receptor	93.92	-0.0213
HLA-DQ5	ERCDGFLDCSDESDEK	[Dioxidation(C)@3; Cys->Dha(C)@9]	SORL_HUMAN	Sortilin-related receptor	98.86	-0.021
HLA-DQ5	SERCDGFLDCSDESDE	[Dioxidation(C)@4; Cys->Dha(C)@10]	SORL_HUMAN	Sortilin-related receptor	93.92	-0.0213
HLA-DQ5	SERCDGFLDCSDESDEK	[Dioxidation(C)@4; Cys->Dha(C)@10]	SORL_HUMAN	Sortilin-related receptor	97.93	-0.0111
HLA-DQ5	LSERCDGFLDCSDESD	[Dioxidation(C)@5; Cys->Dha(C)@11]	SORL_HUMAN	Sortilin-related receptor	95.84	-0.0214
HLA-DQ5	LSERCDGFLDCSDESDE	[Dioxidation(C)@5; Cys->Dha(C)@11]	SORL_HUMAN	Sortilin-related receptor	95.87	-0.017
HLA-DQ5	LSERCDGFLDCSDESDEK	[Dioxidation(C)@5; Cys->Dha(C)@11]	SORL_HUMAN	Sortilin-related receptor	94.71	0.0091
HLA-DQ5	LSERCDGFLDCSDESDEKA	[Dioxidation(C)@5; Cys->Dha(C)@11]	SORL_HUMAN	Sortilin-related receptor	94.83	-0.0298
HLA-DQ5	SERCDGFLDCSDESDEK	[Oxidation(C)@4; Oxidation(F)@7; Cys->Dha(C)@10]	SORL_HUMAN	Sortilin-related receptor	97.93	-0.0111
HLA-DQ5	HPKQCAYFCENKLR	[Cys->Dha(C)@5; Dioxidation(C)@9]	TR13B_HUMAN	Tumor necrosis factor receptor superfamily member 13B	97.04	-0.0159
HLA-DQ5	SCPEEQYWDPLL	[Dioxidation(C)@2]	TR13B_HUMAN	Tumor necrosis factor receptor superfamily member 13B	95	-0.0172
HLA-DQ5	SCPEEQYWDPLLGT	[Dioxidation(C)@2]	TR13B_HUMAN	Tumor necrosis factor receptor superfamily member 13B	94.85	-0.0059
HLA-DQ5	HPKQCAYFCENKLR	[Dioxidation(Y)@7; Cys->Dha(C)@9]	TR13B_HUMAN	Tumor necrosis factor receptor superfamily member 13B	97.04	-0.0159
HLA-DP4	TPTMGWLHWERFMCNLDCQ	[Dioxidation(C)@14; Cys->Dha(C)@18]	AGAL_HUMAN	Alpha-galactosidase A	99	-0.0295
HLA-DP4	VDQFHGTEYVCCPQT	[Cys->Dha(C)@11; Dioxidation(C)@12]	APLP2_HUMAN	Amyloid-like protein 2	98.19	-0.0148
HLA-DP4	VDQFHGTEYVCCPQ	[Cys->Dha(C)@11; Dioxidation(C)@12]	APLP2_HUMAN	Amyloid-like protein 2	98.59	-0.0132
HLA-DP4	VDQFHGTEYVCCP	[Cys->Dha(C)@11; Dioxidation(C)@12]	APLP2_HUMAN	Amyloid-like protein 2	96.22	-0.021
HLA-DP4	RNNFESEDYCMAVCKA	[Trioxidation(C)@14]	APLP2_HUMAN	Amyloid-like protein 2	98.53	-0.0279
HLA-DP4	RNNFESEDYCMAVC	[Cys->Dha(C)@10; Dioxidation(C)@14]	APLP2_HUMAN	Amyloid-like protein 2	96.43	-0.0182
HLA-DP4	NRNNFESEDYCMAVCKA	[Trioxidation(C)@15]	APLP2_HUMAN	Amyloid-like protein 2	99	-0.0333
HLA-DP4	NRNNFESEDYCMAVC	[Cys->Dha(C)@11; Dioxidation(C)@15]	APLP2_HUMAN	Amyloid-like protein 2	94.68	-0.009
HLA-DP4	GVDQFHGTEYVCCPQTK	[Cys->Dha(C)@12; Dioxidation(C)@13]	APLP2_HUMAN	Amyloid-like protein 2	99	-0.0254
HLA-DP4	GVDQFHGTEYVCCPQTK	[Dehydro(C)@13]	APLP2_HUMAN	Amyloid-like protein 2	98.9	0.0007
HLA-DP4	GVDQFHGTEYVCCPQT	[Cys->Dha(C)@12; Dioxidation(C)@13]	APLP2_HUMAN	Amyloid-like protein 2	98.25	-0.0111
HLA-DP4	GVDQFHGTEYVCCPQ	[Cys->Dha(C)@12; Dioxidation(C)@13]	APLP2_HUMAN	Amyloid-like protein 2	98.23	-0.0209
HLA-DP4	GVDQFHGTEYVCCP	[Cys->Dha(C)@12; Dioxidation(C)@13]	APLP2_HUMAN	Amyloid-like protein 2	97.65	-0.0204
HLA-DP4	IPQNFIADYFETSSQCS	[Dioxidation(C)@16]	CCL3_HUMAN	C-C motif chemokine 3	95.85	0.0011
HLA-DP4	IPQNFIADYFETSSQCSKPS	[Dioxidation(C)@16]	CL3L1_HUMAN	C-C motif chemokine 3-like 1	95.38	-0.0252
HLA-DP4	LPRNFVVDYYETSSLCS	[Dioxidation(C)@16]	CCL4_HUMAN	C-C motif chemokine 4	99	-0.0242
HLA-DP4	KCWKFEHCNFNDVTTR	[Cys->Dha(C)@2; Dioxidation(C)@8]	CD59_HUMAN	CD59 glycoprotein	99	-0.017
HLA-DP4	CWKFEHCNFNDVTTR	[Cys->Dha(C)@1; Dioxidation(C)@7]	CD59_HUMAN	CD59 glycoprotein	97.52	-0.0172
HLA-DP4	CWKFEHCNFNDVTTR	[Cys->Dha(C)@1; Dioxidation(W)@2]	CD59_HUMAN	CD59 glycoprotein	97.52	-0.0172
HLA-DP4	CWKFEHCNFNDVTTR	[Dioxidation(C)@1; Cys->Dha(C)@7]	CD59_HUMAN	CD59 glycoprotein	97.52	-0.0172
HLA-DP4	HLCDFLETHFLDEEVK	[Delta:H(2)C(2)(H)@1; Glutathione(C)@3]	FRIL_HUMAN	Ferritin light chain	97.33	-0.0034
HLA-DP4	FEELCADLFERVPGPV	[Dioxidation(C)@5]	HYOU1_HUMAN	Hypoxia up-regulated protein 1	97.21	0.0138
HLA-DP4	TPSKQSNNKYAASSYLSLTPEQWKSHKSYSCQV	[Trioxidation(C)@31]	LAC3_HUMAN	Ig lambda-3 chain C regions	99	-0.0474
HLA-DP4	TFDQTAWGDSGVYYCS	[Dioxidation(C)@15]	LSR_HUMAN	Lipolysis-stimulated lipoprotein receptor	99	-0.0183
HLA-DP4	RKLGAWVCDRLATC	[Dioxidation(C)@8; Cys->Dha(C)@14]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	99	-0.0212
HLA-DP4	KLGAWVCDRLATCTPP	[Dioxidation(C)@7; Cys->Dha(C)@13]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	95.58	0.0427
HLA-DP4	DRKLGAWVCDRLATC	[Cys->Dha(C)@9; Dioxidation(C)@15]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	99	-0.0135
HLA-DP4	DRKLGAWVCDRLA	[Dioxidation(C)@9; Oxidation(R)@11]	FCER2_HUMAN	Low affinity immunoglobulin epsilon Fc receptor	96.88	-0.0336
HLA-DP4	RDCRDWSDEPIKE	[Dioxidation(C)@3]	LDLR_HUMAN	Low-density lipoprotein receptor	96.8	0.0035
HLA-DP4	RDCRDWSDEPIK	[Dioxidation(C)@3]	LDLR_HUMAN	Low-density lipoprotein receptor	97.18	-0.0084
HLA-DP4	ARDCRDWSDEPIKE	[Dioxidation(C)@4; Oxidation(R)@5]	LDLR_HUMAN	Low-density lipoprotein receptor	94.56	0.0094
HLA-DP4	ARDCRDWSDEPIKE	[Dioxidation(C)@4]	LDLR_HUMAN	Low-density lipoprotein receptor	94.56	0.0094
HLA-DP4	ARDCRDWSDEPIKE	[Trioxidation(C)@4; Oxidation(W)@7]	LDLR_HUMAN	Low-density lipoprotein receptor	94.56	0.0094
HLA-DP4	ARDCRDWSDEPIKE	[Trioxidation(C)@4]	LDLR_HUMAN	Low-density lipoprotein receptor	94.56	0.0094

HLA-DP4	ARDCRDWSDEPIK	[Dioxidation(C)@4; Oxidation(R)@5]	LDLR_HUMAN	Low-density lipoprotein receptor	95.02	-0.0208
HLA-DP4	ARDCRDWSDEPIK	[Dioxidation(C)@4]	LDLR_HUMAN	Low-density lipoprotein receptor	97.41	-0.0029
HLA-DP4	ARDCRDWSDEPIK	[Trioxidation(C)@4; Oxidation(W)@7]	LDLR_HUMAN	Low-density lipoprotein receptor	95.1	-0.0029
HLA-DP4	ARDCRDWSDEPIK	[Trioxidation(C)@4]	LDLR_HUMAN	Low-density lipoprotein receptor	97.41	-0.0029
HLA-DP4	KSNLYCLKPTICSDQDN	[Cys->Dha(C)@6; Dioxidation(C)@12]	LY6E_HUMAN	Lymphocyte antigen 6E	99	-0.0223
HLA-DP4	ARLSYAVGHFLNDLCAS	[Dioxidation(C)@15]	MFS12_HUMAN	Major facilitator superfamily domain-containing protein 1	94.56	-0.0408
HLA-DP4	YTNAFAFTQFGVLCAP	[Glutathione(C)@14]	S43A3_HUMAN	Solute carrier family 43 member 3	94.63	0.0157
HLA-DP4	TNAFAFTQFGVLCA	[Trioxidation(C)@13]	S43A3_HUMAN	Solute carrier family 43 member 3	96.75	-0.0006
HLA-DP4	NEDYFKDLCGPDA	[Trioxidation(C)@9]	S43A3_HUMAN	Solute carrier family 43 member 3	94.7	-0.0251
HLA-DP4	KNEDYFKDLCGPDA	[Trioxidation(C)@10]	S43A3_HUMAN	Solute carrier family 43 member 3	95.48	-0.018
HLA-DP4	TWVCDGYRDCADGSD	[Cys->Dha(C)@4; Dioxidation(C)@10]	SORL_HUMAN	Sortilin-related receptor	99	-0.0122
HLA-DP4	SERCDGFLDCSDESDEK	[Dioxidation(C)@4; Cys->Dha(C)@10]	SORL_HUMAN	Sortilin-related receptor	96	-0.0171
HLA-DP4	SERCDGFLDCSDESDE	[Dioxidation(C)@4; Cys->Dha(C)@10]	SORL_HUMAN	Sortilin-related receptor	97.14	-0.0131
HLA-DP4	SERCDGFLDCSDES	[Dioxidation(C)@4; Cys->Dha(C)@10]	SORL_HUMAN	Sortilin-related receptor	95.12	-0.016
HLA-DP4	ERCDGFLDCSDESDEK	[Dioxidation(C)@3; Cys->Dha(C)@9]	SORL_HUMAN	Sortilin-related receptor	97.79	-0.0189
HLA-DP4	HPKQCAYFCENKLR	[Cys->Dha(C)@5; Dioxidation(C)@9]	TR13B_HUMAN	Tumor necrosis factor receptor superfamily member 13B	99	-0.0158
HLA-A2	LVLCLLSATV	[Oxidation(C)@4]	SULF2_HUMAN	Extracellular sulfatase Sulf-2	99	0.0031
HLA-A2	STCLVKIINEV	[Cys->Dha(C)@3]	GMDS_HUMAN	GDP-mannose 4,6 dehydratase	98.05	0.0034
HLA-A2	STCLLPHIEAV	[Cys->Dha(C)@3]	ORAI3_HUMAN	Protein orai-3	96.78	0.0042
HLA-A2	FLVDGVCTV	[Glutathione(C)@7]	SPG20_HUMAN	Spartin	95.28	0.0039
HLA-A2	YLFDRNGVCLH	[Cys->Dha(C)@9; Oxidation(H)@11]	TPPC1_HUMAN	Trafficking protein particle complex subunit 1	97.09	-0.0095

CELL LINE-COX (DR3-DQ2)

Allele	Peptide	Modification	Accession	Protein	Confidence	
HLA DR3/DR52	AEREIVRDIKEKLCYV	Glutathione(C)@14	ACTC_HUMAN	Actin, alpha cardiac muscle 1	96.38	0.0088
HLA DR3/DR52	AEREIVRDIKEKLCYVA	Glutathione(C)@14	ACTC_HUMAN	Actin, alpha cardiac muscle 1	96.23	0.0088
HLA DR3/DR52	LVVDNGSGMC	Glutathione(C)@10	ACTB_HUMAN	Actin, cytoplasmic 1	97.55	0.012
HLA DR3/DR52	IAALVVDNGSGMC	Glutathione(C)@13	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0018
HLA DR3/DR52	VVDNGSGMC	Glutathione(C)@9	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0026
HLA DR3/DR52	DDDIAALVVDNGSGMCKA	Protein Terminal Acetyl@N-term; Dioxidation(C)@16; Oxidation(K)@17	ACTB_HUMAN	Actin, cytoplasmic 1	97.19	-0.0197
HLA DR3/DR52	DDDIAALVVDNGSGMCK	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	96.12	0.0014
HLA DR3/DR52	DDDIAALVVDNGSGMC	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.003
HLA DR3/DR52	DDDIAALVVDNGSGMCKA	Protein Terminal Acetyl@N-term; Trioxidation(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0132
HLA DR3/DR52	LVIDNGSGMC	Glutathione(C)@10	ACTG_HUMAN	Actin, cytoplasmic 2	95.85	-0.0027
HLA DR3/DR52	IAALVIDNGSGMC	Glutathione(C)@13	ACTG_HUMAN	Actin, cytoplasmic 2	98.87	-0.0006
HLA DR3/DR52	AEREIVRDIKEKLC	Glutathione(C)@14	ACTG_HUMAN	Actin, cytoplasmic 2	98.73	0.0016
HLA DR3/DR52	AEREIVRDIKEKLCY	Glutathione(C)@14	ACTG_HUMAN	Actin, cytoplasmic 2	99	0.0031
HLA DR3/DR52	VIDNGSGMC	Glutathione(C)@9	ACTG_HUMAN	Actin, cytoplasmic 2	99	-0.0007
HLA DR3/DR52	EEEIAALVIDNGSGMCKA	Protein Terminal Acetyl@N-term; Dioxidation(C)@16; Oxidation(K)@17	ACTG_HUMAN	Actin, cytoplasmic 2	97.57	-0.021
HLA DR3/DR52	EEEIAALVIDNGSGMCKAGFAGDDAPRAVFPSIVGRP	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	99	-0.0017
HLA DR3/DR52	EEEIAALVIDNGSGMCKAGFAGDDAPR	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	97.2	0.0043
HLA DR3/DR52	EEEIAALVIDNGSGMC	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	97.55	0.0017
HLA DR3/DR52	EEEIAALVIDNGSGMCK	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	98.1	0.0011
HLA DR3/DR52	EEEIAALVIDNGSGMCKA	Protein Terminal Acetyl@N-term; Trioxidation(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	99	0.0114
HLA DR3/DR52	AEREIVRDIKEKLCYVA	Trioxidation(C)@14	ACTG_HUMAN	Actin, cytoplasmic 2	98.16	-0.0146
HLA DR3/DR52	NLREVTKDQSGKYCCQV	Cys->Dha(C)@14; Dioxidation(C)@15	CD22_HUMAN	B-cell receptor CD22	99	-0.0106
HLA DR3/DR52	NLREVTKDQSGKYCCQV	Dioxidation(C)@14; Cys->Dha(C)@15	CD22_HUMAN	B-cell receptor CD22	99	-0.0115
HLA DR3/DR52	KQLNIAYDVTYSLACVRC	Oxidation(C)@18	CCR7_HUMAN	C-C chemokine receptor type 7 Short	99	0.008
HLA DR3/DR52	GRAICSDPNNKRVKNA	Methyl(C)@5	CCL17_HUMAN	C-C motif chemokine 17	99	-0.033
HLA DR3/DR52	RDKEICADPRVPWVKMI	Cys->Dha(C)@6; Dioxidation(R)@10	CCL22_HUMAN	C-C motif chemokine 22	98.56	-0.0113
HLA DR3/DR52	RDKEICADPRVPWVK	Cys->Dha(C)@6; Dioxidation(W)@13	CCL22_HUMAN	C-C motif chemokine 22	99	-0.0056
HLA DR3/DR52	RDKEICADPRVPWVKMI	Cys->Dha(C)@6; Dioxidation(W)@13	CCL22_HUMAN	C-C motif chemokine 22	98.3	-0.0113
HLA DR3/DR52	RDKEICADPRVPWVK	Trioxidation(C)@6; Oxidation(P)@12	CCL22_HUMAN	C-C motif chemokine 22	98.72	0.0044
HLA DR3/DR52	RDKEICADPRVPW	Trioxidation(C)@6; Oxidation(W)@13	CCL22_HUMAN	C-C motif chemokine 22	98.5	0.0042
HLA DR3/DR52	RDKEICADPRVPWVK	Trioxidation(C)@6; Oxidation(W)@13	CCL22_HUMAN	C-C motif chemokine 22	98.5	0.0044
HLA DR3/DR52	RDKEICADPRVPWV	Trioxidation(C)@6; Oxidation(W)@13	CCL22_HUMAN	C-C motif chemokine 22	99	0.0056
HLA DR3/DR52	KPITPETAEKLARDLKAVKYVECS	Dioxidation(C)@23	CDC42_HUMAN	Cell division control protein 42 homolog	99	-0.0137
HLA DR3/DR52	GGAEVAPVAQVALCLETVPVPAGQENPAMSPAVSQ	Cys->Dha(C)@14	CNDD3_HUMAN	Condensin-2 complex subunit D3	99	0.0303
HLA DR3/DR52	CPIQKDKTYSYLNK	Dioxidation(C)@1	NPC2_HUMAN	Epididymal secretory protein E1	99	0.0021
HLA DR3/DR52	CPIQKDKTYSYLNK	Glutathione(C)@1	NPC2_HUMAN	Epididymal secretory protein E1	99	0.0016
HLA DR3/DR52	INCPIQKDKTYSYLNK	Glutathione(C)@3	NPC2_HUMAN	Epididymal secretory protein E1	98.83	-0.0055
HLA DR3/DR52	CPIQKDKTYSYLNK	Trioxidation(C)@1	NPC2_HUMAN	Epididymal secretory protein E1	99	0.0019
HLA DR3/DR52	CIITCDGKNLTIKTE	Cys->Dha(C)@1; Dioxidation(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0215
HLA DR3/DR52	CIITCDGKNLTIK	Cys->Dha(C)@1; Dioxidation(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0144
HLA DR3/DR52	KPDCIITCDGKNLTIKT	Cys->Dha(C)@4; Dioxidation(C)@8	FABP5_HUMAN	Fatty acid-binding protein, epidermal	98.06	-0.0229
HLA DR3/DR52	KPDCIITCDGKNLTIKTE	Cys->Dha(C)@4; Dioxidation(C)@8	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0495
HLA DR3/DR52	CIITCDGKNLTIKTE	Dioxidation(C)@1; Cys->Dha(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	98.93	-0.0215
HLA DR3/DR52	KPDCIITCDGKNLTIKTE	Dioxidation(C)@4; Cys->Dha(C)@8	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0495
HLA DR3/DR52	AKPDCIITCDGKNLTIKT	Oxidation(P)@3; Dioxidation(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.02
HLA DR3/DR52	AKPDCIITCDGKNLTIKT	Trioxidation(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.02
HLA DR3/DR52	AKPDCIITCDGKNLTIKTE	Trioxidation(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0199
HLA DR3/DR52	DYRLDPQLQLHCS	Dioxidation(C)@12	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.018
HLA DR3/DR52	KADIFVDPVLHTAC	Glutathione(C)@14	GSLG1_HUMAN	Golgi apparatus protein 1	99	0.0114
HLA DR3/DR52	KADIFVDPVLHTACA	Glutathione(C)@14	GSLG1_HUMAN	Golgi apparatus protein 1	99	0.0062
HLA DR3/DR52	ISRDWKLDPVLYRKCQG	Glutathione(C)@15	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0036
HLA DR3/DR52	SKADIFVDPVLHTACA	Glutathione(C)@15	GSLG1_HUMAN	Golgi apparatus protein 1	98.94	0.0108
HLA DR3/DR52	IFVDPVLHTACA	Trioxidation(C)@11	GSLG1_HUMAN	Golgi apparatus protein 1	97.98	-0.0179
HLA DR3/DR52	KADIFVDPVLHTACA	Trioxidation(C)@14	GSLG1_HUMAN	Golgi apparatus protein 1	97.67	-0.0109
HLA DR3/DR52	EGQVISCLKLRYADQ	Trioxidation(C)@7	GSLG1_HUMAN	Golgi apparatus protein 1	99	0.0106

HLA DR3/DR52	EGQVISCLKLRYADQR	Trioxidation(C)@7	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0016
HLA DR3/DR52	LEGQVISCLKLRYADQR	Trioxidation(C)@8	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0006
HLA DR3/DR52	CPAGFTCDTQKGT	Cys->Dha(C)@1; Dioxidation(P)@2	GRN_HUMAN	Granulins	99	-0.0158
HLA DR3/DR52	CAQYFLDKIDVIK	Cys->Dha(C)@1; Deamidated(Q)@3	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	96.96	0.0325
HLA DR3/DR52	LPLPTPKVIGIDLGTTYCS	Dioxidation(C)@18	HSP13_HUMAN	Heat shock 70 kDa protein 13	99	-0.0183
HLA DR3/DR52	LPTPKVIGIDLGTTYCS	Glutathione(C)@16	HSP13_HUMAN	Heat shock 70 kDa protein 13	95.68	0.0093
HLA DR3/DR52	LPLPTPKVIGIDLGTTYC	Glutathione(C)@18	HSP13_HUMAN	Heat shock 70 kDa protein 13	98.41	0.0304
HLA DR3/DR52	LPLPTPKVIGIDLGTTYCSVGVFFPGTGKV	Glutathione(C)@18	HSP13_HUMAN	Heat shock 70 kDa protein 13	97.76	-0.004
HLA DR3/DR52	LPLPTPKVIGIDLGTTYCSVG	Glutathione(C)@18	HSP13_HUMAN	Heat shock 70 kDa protein 13	98.84	-0.0005
HLA DR3/DR52	YGCDVGPDGRLLRGHN	Glutathione(C)@3	1B42_HUMAN	HLA class I histocompatibility antigen, B-42 alpha chain	96.39	0.0017
HLA DR3/DR52	YGCDVGPDGRLLRGHN	Trioxidation(C)@3	1B42_HUMAN	HLA class I histocompatibility antigen, B-42 alpha chain	98.92	0.0062
HLA DR3/DR52	YGCDVGPDGRLLRGHN	Dioxidation(C)@3	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	97.47	0.0003
HLA DR3/DR52	GCDVGPDGRLLRGHN	Glutathione(C)@2	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	99	0.0023
HLA DR3/DR52	YGCDVGPDGRLLRGHNQ	Glutathione(C)@3	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	98.93	0.0022
HLA DR3/DR52	CGCDLGPDGRLLRGYD	Oxidation(C)@1	1C01_HUMAN	HLA class I histocompatibility antigen, Cw-1 alpha chain	99	0
HLA DR3/DR52	SGCDLGPDGRLLRGYDQ	Dioxidation(C)@3	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	99	-0.0175
HLA DR3/DR52	SGCDLGPDGRLLRGYDQS	Dioxidation(C)@3	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	98.33	-0.0175
HLA DR3/DR52	SGCDLGPDGRLLRGYD	Dioxidation(C)@3	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	98.29	-0.0172
HLA DR3/DR52	MSGCDLGPDGRLLRGYD	Dioxidation(M)@1; Dioxidation(C)@4	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	99	0.0205
HLA DR3/DR52	CGGEDIVADHVASYGVN	Cys->Dha(C)@1	DQA1_HUMAN	HLA class II histocompatibility antigen, DQ alpha 1 chain	99	-0.0228
HLA DR3/DR52	DPTDGSILACDPGLSRTCDQ	Glutathione(C)@18	ITAL_HUMAN	Integrin alpha-L	99	-0.0014
HLA DR3/DR52	SPRVLEVDTQGTVVCS	Dioxidation(C)@15	ICAM1_HUMAN	Intercellular adhesion molecule 1 Short	97.62	-0.0072
HLA DR3/DR52	EVDTQGTVVC	Glutathione(C)@10	ICAM1_HUMAN	Intercellular adhesion molecule 1 Short	96.08	0.0063
HLA DR3/DR52	FPRWYYDPTEQICKS	Dioxidation(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	98.82	-0.014
HLA DR3/DR52	FPRWYYDPTEQIC	Glutathione(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	98.87	0.0062
HLA DR3/DR52	FPRWYYDPTEQICK	Glutathione(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	97.35	0.0027
HLA DR3/DR52	FPRWYYDPTEQICKS	Glutathione(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	99	0.0032
HLA DR3/DR52	GVICKDQRLPGFSD	Glutathione(C)@4	LOXL3_HUMAN	Lysyl oxidase homolog 3 EC	99	-0.0051
HLA DR3/DR52	CIHGICMDGINRYS	Oxidation(C)@1	NOTC2_HUMAN	Neurogenic locus notch homolog protein 2 Short	99	0.0356
HLA DR3/DR52	VCQALAKDPKLQQGYN	Dioxidation(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1 Short	96.01	0.0003
HLA DR3/DR52	VCQALAKDPKLQQG	Dioxidation(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1 Short	96.58	0.0041
HLA DR3/DR52	VCQALAKDPKLQQGYN	Glutathione(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1 Short	98.6	-0.0054
HLA DR3/DR52	VCQALAKDPKLQQ	Trioxidation(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1 Short	99	0.0042
HLA DR3/DR52	VCQALAKDPKLQQGYN	Trioxidation(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1 Short	99	-0.006
HLA DR3/DR52	VCQALAKDPKLQQG	Trioxidation(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1 Short	96.78	-0.0015
HLA DR3/DR52	LPCDICKDVVTAAGDM	Dioxidation(C)@3; Cys->Dha(C)@6	SAP_HUMAN	Proactivator polypeptide Contains	99	-0.0042
HLA DR3/DR52	FREHLVRDSVFQRCGLR	Glutathione(C)@14	PRRT3_HUMAN	Proline-rich transmembrane protein 3 Flags	97.27	0.0065
HLA DR3/DR52	VPGFADDPTELACR	Glutathione(C)@13	FPRP_HUMAN	Prostaglandin F2 receptor negative regulator	99	-0.0009
HLA DR3/DR52	NILWLDYKNICKVVE	Dioxidation(C)@11	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	0.0282
HLA DR3/DR52	NILWLDYKNICKVVEV	Dioxidation(C)@11	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	96.44	0.0054
HLA DR3/DR52	DENILWLDYKNICKVVE	Dioxidation(C)@13	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	98.69	-0.0046
HLA DR3/DR52	NILWLDYKNICKVVE	Oxidation(W)@4; Dioxidation(C)@11	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	-0.0007
HLA DR3/DR52	NILWLDYKNICKVVE	Oxidation(W)@4; Trioxidation(C)@11	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	0.0046
HLA DR3/DR52	ENILWLDYKNICKVVE	Oxidation(W)@5; Dioxidation(C)@12	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	-0.0009
HLA DR3/DR52	DENILWLDYKNICKVVE	Oxidation(W)@6; Dioxidation(C)@13	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	-0.001
HLA DR3/DR52	NILWLDYKNICKVVE	Trioxidation(C)@11	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	-0.0007
HLA DR3/DR52	KNICKVVEV	Trioxidation(C)@4	KPYM_HUMAN	Pyruvate kinase isozymes M1/M2 EC	99	-0.0023
HLA DR3/DR52	GCFIVIDAMLERIKPE	Glutathione(C)@2	PTPRS_HUMAN	Receptor-type tyrosine-protein phosphatase S Short	99	0.0056
HLA DR3/DR52	GPGPCERLLSRVAALFPALRPG	Glutathione(C)@5	SQSTM_HUMAN	Sequestosome-1	99	-0.0013
HLA DR3/DR52	AGPGPCERLLSRVAALFPALRPG	Oxidation(P)@3; Dioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0161
HLA DR3/DR52	AGPGPCERLLSRVAALFPALRPG	Trioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0161
HLA DR3/DR52	FHSMVCDGIIQCRDGSDE	Cys->Dha(C)@6; Dioxidation(C)@12	SORL_HUMAN	Sortilin-related receptor	96.58	-0.0132
HLA DR3/DR52	FHSMVCDGIIQCRDGSD	Cys->Dha(C)@6; Dioxidation(C)@12	SORL_HUMAN	Sortilin-related receptor	97.93	-0.0162
HLA DR3/DR52	FHSMVCDGIIQCRDGSD	Dioxidation(C)@6; Cys->Dha(C)@12	SORL_HUMAN	Sortilin-related receptor	96.03	-0.0158
HLA DR3/DR52	CPPTVCQDPKEPRA	Cys->Dha(C)@1; Dioxidation(P)@3	TRAF1_HUMAN	TNF receptor-associated factor 1	99	-0.0185
HLA DR3/DR52	LDHLVEIDFRCNCVPIPL	Cys->Dha(C)@11; Dioxidation(C)@13	TLR7_HUMAN	Toll-like receptor 7 Flags	97.61	-0.0105
HLA DR3/DR52	CPSDWKTDSTCRMVTS	Cys->Dha(C)@1; Dioxidation(P)@2	TFR1_HUMAN	Transferrin receptor protein 1 Short	99	-0.0171

HLA DR3/DR52	CPSDWKTDSTCRMVTS	Cys->Dha(C)@1; Dioxidation(W)@5	TFR1_HUMAN	Transferrin receptor protein 1 Short	99	-0.018
HLA DR3/DR52	CPSDWKTDSTCRMVTS	Glutathione(C)@1	TFR1_HUMAN	Transferrin receptor protein 1 Short	98.29	-0.0004
HLA DR3/DR52	CPSDWKTDSTCRMVT	Oxidation(C)@1; Dehydrated(S)@3	TFR1_HUMAN	Transferrin receptor protein 1 Short	99	-0.0033
HLA DR3/DR52	MVDNEAIYDIC	Glutathione(C)@11	TBA1C_HUMAN	Tubulin alpha-1C chain	98.8	-0.0002
HLA DR3/DR52	CEPDYYLDEAGRCT	Glutathione(C)@1	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	98.65	-0.0008
HLA DR3/DR52	FNVFVCDQKCNIADIK	Cys->Dha(C)@6; Dioxidation(C)@10	VP13C_HUMAN	Vacuolar protein sorting-associated protein 13C - Homo sapiens (Human).	97.51	0.0038
HLA-DQ2	CKAGFAGDDAPRAVFPS	Trioxidation(C)@1	ACTB_HUMAN	Actin, cytoplasmic 1	98.44	-0.003
HLA-DQ2	RAYLEGRCVEWLR	Dioxidation(R)@7; Dioxidation(C)@8	1A11_HUMAN	HLA class I histocompatibility antigen, A-11 alpha chain	99	-0.0332
HLA-DQ2	SPEPEAEAEAAAGPGPC	Glutathione(C)@17	SQSTM_HUMAN	Sequestosome-1	99	0.0046
HLA-DQ2	GPGPCERLLSRVAALFPALRPG	Glutathione(C)@5	SQSTM_HUMAN	Sequestosome-1	99	0.0116
HLA-DQ2	AGPGPCERLLSRVAALFPALRPG	Oxidation(P)@3; Dioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0214
HLA-DP3	SSGRCWIFSCLNVMRLP	Cys->Dha(C)@5; Dioxidation(C)@10	BLMH_HUMAN	Bleomycin hydrolase	99	-0.0157
HLA-DP3	IPCEKVSTLPAITLK	Glutathione(C)@3	CATD_HUMAN	Cathepsin D	99	0.0017
HLA-DP3	DSVCCRDYVRYRLPL	Cys->Dha(C)@4; Dioxidation(C)@5	CCL22_HUMAN	C-C motif chemokine 22	97.72	-0.0055
HLA-DP3	DSVCCRDYVRYRLPL	Dioxidation(C)@4; Cys->Dha(C)@5	CCL22_HUMAN	C-C motif chemokine 22	99	-0.0058
HLA-DP3	SKNRVPDSCCINVT	Cys->Dha(C)@9; Dioxidation(C)@10	CD63_HUMAN	CD63 antigen	96.76	-0.0155
HLA-DP3	ERDCREAEKAAQTAER	Glutathione(C)@4	CIP4_HUMAN	Cdc42-interacting protein 4	99	0.0012
HLA-DP3	ACSHSMRYFDTAVSRPG	Trioxidation(C)@2	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	97.36	0.0211
HLA-DP3	SPYYSRQYSVAFCNHVR	Glutathione(C)@13	NIBAN_HUMAN	Protein Niban	99	0.0063
HLA-DP3	SPYYSRQYSVAFCNHVRT	Oxidation(C)@13; Deamidated(N)@14; Deamidated(R)@17	NIBAN_HUMAN	Protein Niban	97.39	-0.0009
HLA-DP3	QDPRTCEEPASSGAH	Trioxidation(C)@6	RHDF2_HUMAN	Rhomboid family member 2	98.34	0.0071
HLA-DP3	GPVVGTRYKCSVCPDYD	Cys->Dha(C)@10; Dioxidation(C)@13	SQSTM_HUMAN	Sequestosome-1	97.79	-0.0091
HLA-DP3	GPGPCERLLSRVAALFPALRPG	Dioxidation(C)@5	SQSTM_HUMAN	Sequestosome-1	98.83	0.0169
HLA-DP3	AGPGPCERLLSRVAALFPALRP	Dioxidation(C)@6; Oxidation(R)@12	SQSTM_HUMAN	Sequestosome-1	99	-0.0014
HLA-DP3	AGPGPCERLLSRVAALFPALRPGGFQ	Dioxidation(C)@6; Oxidation(R)@12	SQSTM_HUMAN	Sequestosome-1	99	0.0066
HLA-DP3	AGPGPCERLLSRVAALFPALRPGG	Dioxidation(C)@6; Oxidation(R)@12	SQSTM_HUMAN	Sequestosome-1	99	-0.0068
HLA-DP3	GPGPCERLLSRVAALFPALR	Glutathione(C)@5	SQSTM_HUMAN	Sequestosome-1	97.35	0.0077
HLA-DP3	GPGPCERLLSRVAALFPALRPG	Glutathione(C)@5	SQSTM_HUMAN	Sequestosome-1	99	0.0106
HLA-DP3	GPGPCERLLSRVAALFPALRPGGFQ	Glutathione(C)@5	SQSTM_HUMAN	Sequestosome-1	99	0.0136
HLA-DP3	AGPGPCERLLSRVAALFPALRP	Oxidation(P)@3; Dioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0078
HLA-DP3	AGPGPCERLLSRVAALFPALRPG	Oxidation(P)@3; Dioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0073
HLA-DP3	AGPGPCERLLSRVAALFPALRPG	Oxidation(P)@5; Dioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	98.35	-0.0102
HLA-DP3	GPGPCERLLSRVAALFPA	Trioxidation(C)@5	SQSTM_HUMAN	Sequestosome-1	99	0.0123
HLA-DP3	GPGPCERLLSRVAALFPALRPG	Trioxidation(C)@5	SQSTM_HUMAN	Sequestosome-1	99	0.0113
HLA-DP3	AGPGPCERLLSRVAALFPA	Trioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	98.17	-0.003
HLA-DP3	AGPGPCERLLSRVAALFPALRP	Trioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0076
HLA-DP3	AGPGPCERLLSRVAALFPALRPG	Trioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	98.51	-0.0085
HLA-DP3	AGPGPCERLLSRVAALFPALRPGGFQ	Trioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	99	-0.0053
HLA-A1/B8/Bw6/Cw7	ASEVCPPPGY	Glutathione(C)@5	PIAS3_HUMAN	E3 SUMO-protein ligase PIAS3	98.22	-0.0043
HLA-A1/B8/Bw6/Cw7	HTDCPGHADY	Glutathione(C)@4	EFTU_HUMAN	Elongation factor Tu, mitochondrial	99	-0.0004
HLA-A1/B8/Bw6/Cw7	LADLSCLVY	Glutathione(C)@6	ERH_HUMAN	Enhancer of rudimentary homolog	95.79	0.003
HLA-A1/B8/Bw6/Cw7	ASINLNAINKCPLLKPWAL	Dehydro(C)@11	ALDOA_HUMAN	Fructose-bisphosphate aldolase A	99	0.0038
HLA-A1/B8/Bw6/Cw7	NKCPLLKPWAL	Dioxidation(C)@3	ALDOA_HUMAN	Fructose-bisphosphate aldolase A	97.22	0.0145
HLA-A1/B8/Bw6/Cw7	GCPLPEACELY	Glutathione(C)@2	NAT10_HUMAN	N-acetyltransferase 10	97.67	0.048
HLA-A1/B8/Bw6/Cw7	QTDCAPNNGY	Glutathione(C)@4	NOMO3_HUMAN	Nodal modulator 3	99	-0.0008
HLA-A1/B8/Bw6/Cw7	VTDDLVCLVY	Glutathione(C)@7	SRP09_HUMAN	Signal recognition particle 9 kDa protein	98.74	0.0071
HLA-A1/B8/Bw6/Cw7	KSDIWSIGCTVFE	Dioxidation(C)@9	YSK4_HUMAN	SPS1/STE20-related protein kinase YSK4	98.89	0.0229

CELL LINE-BOLETH (DR4-DQ8)

Allele	Peptide	Modification	Accession	Protein	Confidence	
HLA-DR4/DR53	IDESSLTGETTPCSKVTA	Trioxidation(C)@13	AT2C1_HUMAN	Calcium-transporting ATPase type 2C member 1	98.95	-0.024
HLA-DR4/DR53	CGSCWAHASTSAMADR	Oxidation(C)@4	CATZ_HUMAN	Cathepsin Z	99	-0.0095
HLA-DR4/DR53	CGSCWAHASTSAMADR	Oxidation(C)@1	CATZ_HUMAN	Cathepsin Z	99	-0.0095
HLA-DR4/DR53	SRCYTCQVSNSVSS	Cys->Dha(C)@3; Dioxidation(C)@6	CD48_HUMAN	CD48 antigen	96.16	-0.0308
HLA-DR4/DR53	GYVDDTQFVRFDSDSACPRMEPR	Dehydro(C)@17	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	99	0.0297
HLA-DR4/DR53	VDDTQFVRFDSDSACPRMEPR	Dehydro(C)@15; Oxidation(M)@18	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	99	0.03
HLA-DR4/DR53	VDDTQFVRFDSDSACPRMEPRAP	Dehydro(C)@15; Oxidation(M)@18	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	98.24	0.0258
HLA-DR4/DR53	VDDTQFVRFDSDSACPRMEPR	Dehydro(C)@15	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	99	0.0359
HLA-DR4/DR53	VDDTQFVRFDSDSACPRMEPRAP	Dehydro(C)@15	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	97.25	0.0359
HLA-DR4/DR53	VDDTQFVRFDSDSACPRMEPRAPW	Dehydro(C)@15	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	99	0.031
HLA-DR4/DR53	DDTQFVRFDSDSACPRMEPR	Dehydro(C)@14	HLAG_HUMAN	HLA class I histocompatibility antigen, alpha chain G	99	0.0333
HLA-DR4/DR53	LRSCTAADTAAQIT	Methyl(C)@4	1C16_HUMAN	HLA class I histocompatibility antigen, Cw-16 alpha chain	99	-0.017
HLA-DR4/DR53	LRSCTAADTAAQITQ	Methyl(C)@4	1C16_HUMAN	HLA class I histocompatibility antigen, Cw-16 alpha chain	98.05	-0.018
HLA-DR4/DR53	RSCTAADTAAQITQ	Methyl(C)@3	1C16_HUMAN	HLA class I histocompatibility antigen, Cw-16 alpha chain	99	-0.0161
HLA-DR4/DR53	RSCTAADTAAQITQR	GlnThrGlyGly(C)@3	1C16_HUMAN	HLA class I histocompatibility antigen, Cw-16 alpha chain	99	0.013
HLA-DR4/DR53	VTWLCNGELVTEGVAESLFLP	Dioxidation(W)@3; Dioxidation(C)@5	DPA1_HUMAN	HLA class II histocompatibility antigen, DP alpha 1 chain	97.12	-0.0159
HLA-DR4/DR53	CNGELVTEGVAESLFLPR	Cys->Dha(C)@1; Deamidated(N)@2	DPA1_HUMAN	HLA class II histocompatibility antigen, DP alpha 1 chain	99	-0.0086
HLA-DR4/DR53	FPRWYYDPTEQICKS	Dioxidation(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	99	-0.0261
HLA-DR4/DR53	CLKPTICSDQDNYCVT	Oxidation(C)@7	LY6E_HUMAN	Lymphocyte antigen 6E	98	-0.0051
HLA-DR4/DR53	WGPSYWCQNTETAAQCNA	Trioxidation(C)@16	SAP_HUMAN	Proactivator polypeptide	96.09	-0.0246
HLA-DR4/DR53	GPSYWCQNTETAAQCNA	Trioxidation(C)@15	SAP_HUMAN	Proactivator polypeptide	98.7	-0.0261
HLA-DR4/DR53	CCVLVFDVTAPNTFK	Cys->Dha(C)@1; Dioxidation(C)@2	RAB7A_HUMAN	Ras-related protein Rab-7a	99	-0.0228
HLA-DR4/DR53	IPQRWACDGDTDCQDG	Oxidation(C)@7; Dehydrated(T)@11	SORL_HUMAN	Sortilin-related receptor	99	-0.0051
HLA-DR4/DR53	IPQRWACDGDTDCQDGS	Dioxidation(C)@7; Cys->Dha(C)@13	SORL_HUMAN	Sortilin-related receptor	98.7	-0.0238
HLA-DR4/DR53	IPQRWACDGDTDCQDGSD	Cys->Dha(C)@7; Dioxidation(C)@13	SORL_HUMAN	Sortilin-related receptor	98.48	-0.0245
HLA-DR4/DR53	IPQRWACDGDTDCQDG	Cys->Dha(C)@7; Dioxidation(C)@13	SORL_HUMAN	Sortilin-related receptor	96.3	-0.0229
HLA-DR4/DR53	IPQRWACDGDTDCQDGS	Cys->Dha(C)@7; Dioxidation(C)@13	SORL_HUMAN	Sortilin-related receptor	96.09	-0.0238
HLA-DR4/DR53	IRSSWVCDGDNDCRDWS	Cys->Dha(C)@7; Dioxidation(C)@13	SORL_HUMAN	Sortilin-related receptor	96.36	-0.0253
HLA-DR4/DR53	CPSDWKTDSTCRMVT	Oxidation(C)@1; Dehydrated(T)@7	TFR1_HUMAN	Transferrin receptor protein 1	96.98	-0.0096
HLA-DR4/DR53	CPSDWKTDSTCRMVTS	Oxidation(C)@1; Dehydrated(T)@7	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0068
HLA-DR4/DR53	CPSDWKTDSTCRMVT	Oxidation(C)@1; Dehydrated(T)@10	TFR1_HUMAN	Transferrin receptor protein 1	97.34	-0.0072
HLA-DR4/DR53	CPSDWKTDSTCRMVT	Oxidation(C)@1; Dehydrated(S)@3	TFR1_HUMAN	Transferrin receptor protein 1	95.94	-0.0072
HLA-DR4/DR53	CPSDWKTDSTCRMVT	Oxidation(C)@1; Dehydrated(D)@4	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0096
HLA-DR4/DR53	CPSDWKTDSTCRMVTS	Cys->Dha(C)@1; Dioxidation(W)@5	TFR1_HUMAN	Transferrin receptor protein 1	96.3	-0.0246
HLA-DR4/DR53	CPSDWKTDSTCRMVT	Cys->Dha(C)@1; Dioxidation(P)@2	TFR1_HUMAN	Transferrin receptor protein 1	97.79	-0.0277
HLA-DQ8	EEETTALVCDNGSG	Dioxidation(C)@9	ACTH_HUMAN	Actin, gamma-enteric smooth muscle	99	-0.0249
HLA-DQ8	DKFNQCGTCNEFKE	Cys->Dha(C)@6; Dioxidation(C)@9	CATZ_HUMAN	Cathepsin Z	99	-0.0271
HLA-DQ8	SCPREEEGSTIPIQEDYRKP	Dioxidation(C)@2	CD27_HUMAN	CD27 antigen	99	-0.0258
HLA-DQ8	YPCSCEVKGEEDN	Cys->Dha(C)@3; Dioxidation(C)@5	CD82_HUMAN	CD82 antigen	99	-0.0212
HLA-DQ8	AEEAGASAAACEAPSA	Trioxidation(C)@11	MARCS_HUMAN	Myristoylated alanine-rich C-kinase substrate	99	-0.0194

HLA-DP4	DPHLCDFLETHFLDEEVK	Trioxidation(C)@5	FRIL_HUMAN	Ferritin light chain	96.7	-0.0196
HLA-DP4	HLCDFLETHFLDEEVK	Delta:H(2)C(2)(H)@1; Glutathione(C)@3	FRIL_HUMAN	Ferritin light chain	94.36	-0.0166
HLA-DP4	KDGTYNWMSWLLVNTCA	Trioxidation(C)@16	SIRB1_HUMAN	Signal-regulatory protein beta-1	94.78	-0.0327
HLA-DP4	TNAFAFTQFGVLCAP	Glutathione(C)@13	S43A3_HUMAN	Solute carrier family 43 member 3	93.93	-0.0034
HLA-DP4	TNAFAFTQFGVLCA	Trioxidation(C)@13	S43A3_HUMAN	Solute carrier family 43 member 3	94.39	-0.0256

	CELL LINE-SCHU (DR2-DQ6)					
Allele	**Peptide**	**Modification**	**Accession**	**Protein**	**Confidence**	
HLA-DR2/DR51	DAWDYVQAQVKCCG	Cys->Dha(C)@12	CD82_HUMAN	CD82 antigen	97.12	-0.0244
HLA-DR2/DR51	QDAWDYVQAQVKCCG	Cys->Dha(C)@13	CD82_HUMAN	CD82 antigen	98.42	-0.0138
HLA-DR2/DR51	QDAWDYVQAQVKCC	Cys->Dha(C)@13	CD82_HUMAN	CD82 antigen	95.2	-0.0284
HLA-DR2/DR51	APSGNYVACGGLDNICSIYNLKTREGN	Cys->Dha(C)@9	GBB1_HUMAN	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	99	-0.0158
HLA-DR2/DR51	APSGNYVACGGLDNICSIYNLKTREG	Dioxidation(C)@9	GBB1_HUMAN	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1	99	-0.0131
HLA-DR2/DR51	AEQLRAYLDGTCVEWL	Glutathione(C)@12	1A03_HUMAN	HLA class I histocompatibility antigen, A-3 alpha chain	97.7	0.002
HLA-DR2/DR51	EAEQLRAYLDGTCVEWL	Glutathione(C)@13	1A03_HUMAN	HLA class I histocompatibility antigen, A-3 alpha chain	96.85	-0.0172
HLA-DR2/DR51	KCWKIRHFPNEFIVETK	Glutathione(C)@2	ITM2A_HUMAN	Integral membrane protein 2A	98.47	-0.0015
HLA-DR2/DR51	NCNAIRHFENTF	Dioxidation(C)@2	ITM2C_HUMAN	Integral membrane protein 2C	99	-0.0089
HLA-DR2/DR51	NCNAIRHFENTFVVETL	Trioxidation(C)@2	ITM2C_HUMAN	Integral membrane protein 2C	95.75	0.0012
HLA-DR2/DR51	NCNAIRHFENTFVVE	Trioxidation(C)@2	ITM2C_HUMAN	Integral membrane protein 2C	96.97	-0.006
HLA-DR2/DR51	DPYCGWDQGRCISIYSSERSV	Cys->Dha(C)@4	SEM7A_HUMAN	Semaphorin-7A	99	-0.0197
HLA-DR2/DR51	NPRDAKACVVHGSDL	Dioxidation(C)@8	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1	99	-0.0138
HLA-DR2/DR51	CTKTYHTEKAEDKQKLE	Dioxidation(C)@1	TM9S2_HUMAN	Transmembrane 9 superfamily member 2	99	-0.0207
HLA-DR2/DR51	DEEKKSDECKAEIELFVNRLDSVE	Glutathione(C)@9	TM9S2_HUMAN	Transmembrane 9 superfamily member 2	99	0
HLA-DR2/DR51	VQKWLLAAGAQKC	GlnThrGlyGly(C)@13	TPP1_HUMAN	Tripeptidyl-peptidase 1	97.86	-0.0631
HLA-DR2/DR51	VQKWLLAAGAQKCHSV	Glutathione(C)@13	TPP1_HUMAN	Tripeptidyl-peptidase 1	96.46	0.0085
HLA-DR2/DR51	VQKWLLAAGAQKCH	Glutathione(C)@13	TPP1_HUMAN	Tripeptidyl-peptidase 1	99	0.0483
HLA-DR2/DR51	TVQKWLLAAGAQKCH	Glutathione(C)@14	TPP1_HUMAN	Tripeptidyl-peptidase 1	99	0.0295
HLA-DQ6	IPQYCGSCWAHASTSA	Cys->Dha(C)@5	CATZ_HUMAN	Cathepsin Z	99	-0.0252
HLA-DQ6	IPQYCGSCWAHASTS	Cys->Dha(C)@5	CATZ_HUMAN	Cathepsin Z	99	-0.0222
HLA-DQ6	SPCQPDSGACQVAKSDEK	Cys->Dha(C)@3	MPRI_HUMAN	Cation-independent mannose-6-phosphate receptor	99	-0.0162
HLA-DQ6	SPCQPDSGACQVAKSDEKT	Cys->Dha(C)@3	MPRI_HUMAN	Cation-independent mannose-6-phosphate receptor	98.53	-0.0244
HLA-DQ6	VDMTCGGCAEAVSRV	Cys->Dha(C)@5	ATOX1_HUMAN	Copper transport protein ATOX1	98.64	-0.0128
HLA-DQ6	VDMTCGGCAEAVSRVLN	Cys->Dha(C)@5	ATOX1_HUMAN	Copper transport protein ATOX1	96.17	-0.0302
HLA-DQ6	KPIIGILMQKCRNKV	Dehydro(C)@11	GGH_HUMAN	Gamma-glutamyl hydrolase	99	0.0222
HLA-DQ6	DIKHHCAAITPGRG	Dioxidation(C)@6	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0227
HLA-DQ6	GSTCCELPSGKYG	Dehydrated(T)@3	GRN_HUMAN	Granulins	95.88	0.0013
HLA-DQ6	CPDGSTCCELPSGKYG	Dioxidation(C)@1	GRN_HUMAN	Granulins	96.03	-0.018
HLA-DQ6	APCEFGVLNSLANVLSQH	Trioxidation(C)@3	DMB_HUMAN	HLA class II histocompatibility antigen, DM beta chain	99	-0.0477
HLA-DQ6	SPSRTEALNHHNLLVCSVTDF	Glutathione(C)@16	DQB1_HUMAN	HLA class II histocompatibility antigen, DQ beta 1 chain	98.2	0.0055
HLA-DQ6	VGDVTGAQAYASTAKC	Glutathione(C)@16	IFM2_HUMAN	Interferon-induced transmembrane protein 2	96.72	0.0015
HLA-DQ6	DRKMVGDVTGAQAYASTAKC	Glutathione(C)@20	IFM2_HUMAN	Interferon-induced transmembrane protein 2	95.4	-0.0096
HLA-DQ6	DPLLDAGTTVLSCGCV	Cys->Dha(C)@13	IL21R_HUMAN	Interleukin-21 receptor	97.98	-0.0193
HLA-DQ6	RPTGDVTHECACLPGFTGQ	Cys->Dha(C)@10	NOTC1_HUMAN	Neurogenic locus notch homolog protein 1	98.5	-0.0319
HLA-DQ6	GDVTHECACLPGFTGQ	Cys->Dha(C)@7	NOTC1_HUMAN	Neurogenic locus notch homolog protein 1	96.21	-0.0152
HLA-DQ6	NPRDAKACVVHGSD	Dioxidation(C)@8	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1	96.77	-0.0173
HLA-DQ6	NPRDAKACVVHGSDL	Dioxidation(C)@8	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1	96.92	-0.0187
HLA-DP4	HPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIE	Deamidated(N)@9	B2MG_HUMAN	Beta-2-microglobulin	96.28	-0.0004
HLA-DP4	HPAENGKSNFLNC	Dioxidation(C)@13	B2MG_HUMAN	Beta-2-microglobulin	99	-0.0277
HLA-DP4	HPAENGKSNFLNCYVSGFH	Dioxidation(C)@13	B2MG_HUMAN	Beta-2-microglobulin	98.68	-0.0122
HLA-DP4	IPQNFIADYFETSSQCS	Dioxidation(C)@16	CCL3_HUMAN	C-C motif chemokine 3	96.46	-0.0185

HLA-DP4	IPQNFIADYFETSSQC	Glutathione(C)@16	CCL3_HUMAN	C-C motif chemokine 3	99	0.0038
HLA-DP4	IPQNFIADYFETSSQCSKPS	Dioxidation(C)@16	CL3L1_HUMAN	C-C motif chemokine 3-like 1	99	-0.0226
HLA-DP4	LPRNFVVDYYETSSLCS	Dioxidation(C)@16	CCL4_HUMAN	C-C motif chemokine 4	97.35	-0.0239
HLA-DP4	IPQYCGSCWAHASTS	Cys->Dha(C)@5	CATZ_HUMAN	Cathepsin Z	99	-0.0286
HLA-DP4	KCWKFEHCNFNDVTTR	Cys->Dha(C)@2	CD59_HUMAN	CD59 glycoprotein	99	-0.0321
HLA-DP4	CWKFEHCNFNDVTTR	Dioxidation(C)@1	CD59_HUMAN	CD59 glycoprotein	99	-0.0302
HLA-DP4	VVSGFCRSPPV	Dioxidation(C)@6	FLOT1_HUMAN	Flotillin-1	99	-0.021
HLA-DP4	PVNFKLLSHCLLVTL	Cys->Ser@10	HBA_HUMAN	Hemoglobin subunit alpha	98.79	-0.0076
HLA-DP4	LRVDPVNFKLLSHCLLVTLA	Cys->Ser@14	HBA_HUMAN	Hemoglobin subunit alpha	99	-0.0113
HLA-DP4	SPSKKGPLQHHNLLVCH	Dioxidation(C)@16	DPB1_HUMAN	HLA class II histocompatibility antigen, DP beta 1 chain	99	-0.0245
HLA-DP4	AYAKSEEFAVCRDGK	Dioxidation(C)@11	INGR1_HUMAN	Interferon gamma receptor 1	99	-0.0232
HLA-DP4	SAYAKSEEFAVCRDGK	Dioxidation(C)@12	INGR1_HUMAN	Interferon gamma receptor 1	98.14	-0.0243
HLA-DP4	HQNTFLHDSFQNVAAVC	Glutathione(C)@17	RNAS6_HUMAN	Ribonuclease K6	99	-0.019
HLA-DP4	YTNAFAFTQFGVLCA	Trioxidation(C)@14	S43A3_HUMAN	Solute carrier family 43 member 3	97.53	-0.0163
HLA -A3/B7/Bw6/Cw7	ISFPATGCQK	Dioxidation(C)@8	RS6_HUMAN	40S ribosomal protein S6	97.69	-0.0238
HLA -A3/B7/Bw6/Cw7	SPALNKMFCQL	Oxidation(M)@7	P53_HUMAN	Cellular tumor antigen p53	99	-0.0032
HLA -A3/B7/Bw6/Cw7	KLCNIFSTKF	Dioxidation(C)@3	TOP2A_HUMAN	DNA topoisomerase 2-alpha	99	-0.0248
HLA -A3/B7/Bw6/Cw7	VVCEYIVKK	Dioxidation(C)@3	IF2G_HUMAN	Eukaryotic translation initiation factor 2 subunit 3	99	-0.0235
HLA -A3/B7/Bw6/Cw7	TMCPHILRY	Oxidation(M)@2	EIF3E_HUMAN	Eukaryotic translation initiation factor 3 subunit E	98.83	0
HLA -A3/B7/Bw6/Cw7	CPLLKPWAL	Dioxidation(C)@1	ALDOA_HUMAN	Fructose-bisphosphate aldolase A	98.06	-0.024
HLA -A3/B7/Bw6/Cw7	RCLEEGKLVNK	Dioxidation(C)@2	NDUA8_HUMAN	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	97.83	-0.0197
HLA -A3/B7/Bw6/Cw7	CPAPGPHPAL	Dioxidation(C)@1	NAB2_HUMAN	NGFI-A-binding protein 2	99	-0.0215
HLA -A3/B7/Bw6/Cw7	ILNSHCFAR	Dioxidation(C)@6	OAZ1_HUMAN	Ornithine decarboxylase antizyme 1	98.98	-0.0202
HLA -A3/B7/Bw6/Cw7	RVCDIILPRL	Dioxidation(C)@3	PR38A_HUMAN	Pre-mRNA-splicing factor 38A	98.94	-0.0225
HLA -A3/B7/Bw6/Cw7	IPANIGSLCV	Dioxidation(C)@9	PSYR_HUMAN	Psychosine receptor	98.25	0.0548

CELL LINE-STEINLIN (DR3-DQ2)

Allele	Peptide	Modification	Accession	Protein	Confidence	
HLA-DR3/DR52	CCVLVFDVTAPNTFK	Cys->Dha(C)@1; Dioxidation(C)@2	RAB7A_HUMAN	Ras-related protein Rab-7a	97.55	0.0082
HLA-DR3/DR52	CPPTVCQDPKEPRAL	Cys->Dha(C)@1; Dioxidation(P)@3	TRAF1_HUMAN	TNF receptor-associated factor 1	96.3	-0.0064
HLA-DP3/4	IDKFRGVEFVCCPL	Cys->Dha(C)@11; Dioxidation(C)@12	A4_HUMAN	Amyloid beta A4 protein	99	-0.022
HLA-DP3/4	VDQFHGTEYVCCPQ	Cys->Dha(C)@11; Dioxidation(C)@12	APLP2_HUMAN	Amyloid-like protein 2	95.9	-0.0199
HLA-DP3/4	VDQFHGTEYVCCP	Cys->Dha(C)@11; Dioxidation(C)@12	APLP2_HUMAN	Amyloid-like protein 2	96.94	-0.0088
HLA-DR3/DR52	GVGDLDEDPKCPCPSSG	Cys->Dha(C)@11; Dioxidation(C)@13	KCNN3_HUMAN	Small conductance calcium-activated potassium channel protein 3	99	-0.019
HLA-DP3/4	GIDKFRGVEFVCCPL	Cys->Dha(C)@12; Dioxidation(C)@13	A4_HUMAN	Amyloid beta A4 protein	95.47	-0.0223
HLA-DR3/DR52	FPRWYYDPTEQICKSFVYGGCLG	Cys->Dha(C)@13; Dioxidation(C)@21	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	98.99	-0.0307
HLA-DR3/DR52	NLREVTKDQSGKYCCQ	Cys->Dha(C)@14; Dioxidation(C)@15	CD22_HUMAN	B-cell receptor CD22	99	-0.0071
HLA-DR3/DR52	ACDCKSDLQRP	Cys->Dha(C)@2; Dioxidation(C)@4	MUC13_HUMAN	Mucin-13	96.63	-0.0188
HLA-DR3/DR52	GLACDCKSDLQRP	Cys->Dha(C)@4; Dioxidation(C)@6	MUC13_HUMAN	Mucin-13	99	-0.0209
HLA-DR3/DR52	KPDCIITCDGKNLTIK	Cys->Dha(C)@4; Dioxidation(C)@8	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0242
HLA-DR3/DR52	GPNKFKCHSGECITLDKVCNMARDC	Cys->Dha(C)@7; Dioxidation(C)@12	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0314
HLA-DR3/DR52	GPNKFKCHSGECITLDKVCNMARD	Cys->Dha(C)@7; Dioxidation(C)@12	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0233
HLA-DQ2	KHFYWTSDSCPRPGVV	Dehydrated(T)@6; Oxidation(C)@10	CCL22_HUMAN	C-C motif chemokine 22	97.41	-0.0002
HLA-DQ2	VPRSGEVYTCQVEHPS	Dehydro(C)@10	2B13_HUMAN	HLA class II histocompatibility antigen, DRB1-3 chain	99	-0.0033
HLA-DR3/DR52	EKDCLNLDKNLIKYDLQ	Dehydro(C)@4	PTPRC_HUMAN	Receptor-type tyrosine-protein phosphatase C	97.66	-0.0256
HLA-DP3/4	HLCDFLETHFLDEEVK	Delta:H(2)C(2)(H)@1; Glutathione(C)@3	FRIL_HUMAN	Ferritin light chain	96.7	-0.0085
HLA-A1,B3,Cw7	KCPLLKPWAL	Delta:H(2)C(2)(K)@1	ALDOA_HUMAN	Fructose-bisphosphate aldolase A	98.26	0.0212
HLA-A1,B3,Cw7	KCLDPAQRALY	Delta:H(2)C(2)(K)@1	ZN480_HUMAN	Zinc finger protein 480	99	-0.0124
HLA-A1,B3,Cw7	KCLDPAQRTLY	Delta:H(2)C(2)(K)@1	ZN528_HUMAN	Zinc finger protein 528	99	-0.012
HLA-A1,B3,Cw7	NKCPLLKPWAL	Delta:H(2)C(2)(K)@2	ALDOA_HUMAN	Fructose-bisphosphate aldolase A	97.31	0.0438
HLA-DR3/DR52	KCKQLLQDEKAKCNKYA	Delta:H(2)C(2)(K)@3	TAXB1_HUMAN	Tax1-binding protein 1	99	-0.013
HLA-A1,B3,Cw7	QCLDTAQQDLY	Delta:H(2)C(2)@N-term	ZN738_HUMAN	Protein ZNF738	99	0.0256
HLA-DR3/DR52	QCGNMIFDNKEIKLEN	Delta:H(2)C(2)@N-term	PTPRC_HUMAN	Receptor-type tyrosine-protein phosphatase C	99	0.0204
HLA-DR3/DR52	CPIQKDKTYSYLNK	Dioxidation(C)@1	NPC2_HUMAN	Epididymal secretory protein E1	96.1	-0.0011
HLA-DR3/DR52	CEPDYYLDEAGRCT	Dioxidation(C)@1	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	98.33	-0.0058
HLA-DR3/DR52	CEPDYYLDEAGRCT	Dioxidation(C)@1; Oxidation(P)@3	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	96.34	-0.0103
HLA-A1,B3,Cw7	IEFSLEEWQCLDTAQKNLY	Dioxidation(C)@10	ZN726_HUMAN	Zinc finger protein 726	97.79	0.0285
HLA-DR3/DR52	FPRWYYDPTEQICKS	Dioxidation(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	99	0.0129
HLA-DP3/4	IPQNFIADYFETSSQCS	Dioxidation(C)@16	CCL3_HUMAN	C-C motif chemokine 3	97.66	-0.0265
HLA-DR3/DR52	NFRGIVTDGRSGCTPCS	Dioxidation(C)@16	AGRIN_HUMAN	Agrin	98.69	-0.0076
HLA-DR3/DR52	DCAQYFLDKIDVIKQ	Dioxidation(C)@2	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	-0.0183
HLA-DR3/DR52	DCAQYFLDKIDVIK	Dioxidation(C)@2	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	-0.0125
HLA-DR3/DR52	VCQALAKDPKLQQGYN	Dioxidation(C)@2	PPT1_HUMAN	Palmitoyl-protein thioesterase 1	99	-0.0026
HLA-DR3/DR52	KCKQLLQDEKAKCNKYA	Dioxidation(C)@2	TAXB1_HUMAN	Tax1-binding protein 1	98.63	-0.0012
HLA-DR3/DR52	SGCDLGPDGRLLRGYD	Dioxidation(C)@3	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	99	-0.0138
HLA-DR3/DR52	SGECITLDKVCNMARD	Dioxidation(C)@4	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0185
HLA-DP3/4	DPHLCDFLETHFLDEEVK	Dioxidation(C)@5	FRIL_HUMAN	Ferritin light chain	97.15	-0.0122
HLA-DR3/DR52	QCEPDYYLDEAGRCT	Gln->pyro-Glu@N-term; Dehydro(C)@2	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	99	-0.0294
HLA-A1,B3,Cw7	QSENIAAHENCLLY	Gln->pyro-Glu@N-term; Glutathione(C)@11	PHF11_HUMAN	PHD finger protein 11	99	0.002
HLA-DR3/DR52	QCEPDYYLDEAGRCT	Gln->pyro-Glu@N-term; Glutathione(C)@2	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	99	0.0013
HLA-A1,B3,Cw7	CLDTAQQDLY	Glutathione(C)@1	ZN738_HUMAN	Protein ZNF738	99	0.0002
HLA-A1,B3,Cw7	CLDTSQQNLY	Glutathione(C)@1	ZN273_HUMAN	Zinc finger protein 273	99	0.0037
HLA-A1,B3,Cw7	CLDTAQRNLY	Glutathione(C)@1	ZN626_HUMAN	Zinc finger protein 626	99	-0.0007
HLA-DR3/DR52	CPSDWKTDSTCRMVTS	Glutathione(C)@1	TFR1_HUMAN	Transferrin receptor protein 1	96.7	-0.007

HLA-DR3/DR52	CPSDWKTDSTCRMVTSE	Glutathione(C)@1	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0056
HLA-DR3/DR52	CEPDYYLDEAGRCT	Glutathione(C)@1	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	97.69	-0.0098
HLA-A1,B3,Cw7	STDSGLGLGCY	Glutathione(C)@10	WWTR1_HUMAN	WW domain-containing transcription regulator protein 1	99	0.005
HLA-DR3/DR52	LVIDNGSGMC	Glutathione(C)@10	ACTG_HUMAN	Actin, cytoplasmic 2	96.82	-0.0037
HLA-DR3/DR52	PSGEEQRYTCH	Glutathione(C)@10	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	99	-0.0007
HLA-DR3/DR52	PSGQEQRYTCH	Glutathione(C)@10	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	96.27	-0.0017
HLA-DR3/DR52	VPSGEEQRYTC	Glutathione(C)@11	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	96.3	-0.0054
HLA-DR3/DR52	MVDNEAIYDIC	Glutathione(C)@11	TBA1B_HUMAN	Tubulin alpha-1B chain	98.78	-0.0028
HLA-A1,B3,Cw7	FTDGITNKLIGCY	Glutathione(C)@12	EKI1_HUMAN	Ethanolamine kinase 1	99	-0.0059
HLA-DP3/4	VNPKMVMTVFACLMG	Glutathione(C)@12	PLSL_HUMAN	Plastin-2	97.05	-0.0053
HLA-DR3/DR52	AALVVDNGSGMCK	Glutathione(C)@12	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0033
HLA-DR3/DR52	NIAYDVTYSLACV	Glutathione(C)@12	CCR7_HUMAN	C-C chemokine receptor type 7	99	-0.0145
HLA-DR3/DR52	NIAYDVTYSLAC	Glutathione(C)@12	CCR7_HUMAN	C-C chemokine receptor type 7	99	-0.004
HLA-DR3/DR52	IAALVVDNGSGMC	Glutathione(C)@13	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0031
HLA-DR3/DR52	IAALVVDNGSGMCK	Glutathione(C)@13	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0009
HLA-DR3/DR52	IAALVIDNGSGMC	Glutathione(C)@13	ACTG_HUMAN	Actin, cytoplasmic 2	99	-0.0044
HLA-DR3/DR52	FPRWYYDPTEQICK	Glutathione(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	96.34	-0.0043
HLA-DR3/DR52	FPRWYYDPTEQIC	Glutathione(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	96.34	-0.0028
HLA-DR3/DR52	FPRWYYDPTEQICKS	Glutathione(C)@13	SPIT1_HUMAN	Kunitz-type protease inhibitor 1	96.53	0.012
HLA-DR3/DR52	AEREIVRDIKEKLCYVA	Glutathione(C)@14	ACTB_HUMAN	Actin, cytoplasmic 1	96.14	-0.0046
HLA-DR3/DR52	LPFFDPDTNIVYLCG	Glutathione(C)@14	COR1A_HUMAN	Coronin-1A	98.34	-0.0055
HLA-DR3/DR52	KADIFVDPVLHTACA	Glutathione(C)@14	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0022
HLA-DR3/DR52	SDDFHLDRHLYFACR	Glutathione(C)@14	GSLG1_HUMAN	Golgi apparatus protein 1	99	0.0153
HLA-DR3/DR52	KADIFVDPVLHTAC	Glutathione(C)@14	GSLG1_HUMAN	Golgi apparatus protein 1	98.97	0.033
HLA-DR3/DR52	LLPALQEDSGTYVC	Glutathione(C)@14	IL1R2_HUMAN	Interleukin-1 receptor type 2	97.8	-0.0305
HLA-DR3/DR52	FREHLVRDSVFQRCGLR	Glutathione(C)@14	PRRT3_HUMAN	Proline-rich transmembrane protein 3	99	-0.0011
HLA-DR3/DR52	GPQVYKCDPAGYYCG	Glutathione(C)@14	PSA6_HUMAN	Proteasome subunit alpha type-6	99	-0.0048
HLA-DR3/DR52	GPQVYKCDPAGYYC	Glutathione(C)@14	PSA6_HUMAN	Proteasome subunit alpha type-6	99	-0.0042
HLA-DQ2	IDQYFSGDDIDEDPC	Glutathione(C)@15	IMA3_HUMAN	Importin subunit alpha-3	99	0.0137
HLA-DR3/DR52	KQLNIAYDVTYSLAC	Glutathione(C)@15	CCR7_HUMAN	C-C chemokine receptor type 7	98.59	-0.0026
HLA-DR3/DR52	APLSVFEGDSVVLRCRAK	Glutathione(C)@15	FCRL5_HUMAN	Fc receptor-like protein 5	99	-0.0025
HLA-DR3/DR52	SALDYRLDPQLQLHC	Glutathione(C)@15	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0084
HLA-DR3/DR52	SKADIFVDPVLHTACAL	Glutathione(C)@15	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0042
HLA-DR3/DR52	ISRDWKLDPVLYRKCQG	Glutathione(C)@15	GSLG1_HUMAN	Golgi apparatus protein 1	98.3	-0.0014
HLA-DR3/DR52	SKADIFVDPVLHTACA	Glutathione(C)@15	GSLG1_HUMAN	Golgi apparatus protein 1	97.21	0.0066
HLA-DP3/4	IPQNFIADYFETSSQCSKPG	Glutathione(C)@16	CCL3_HUMAN	C-C motif chemokine 3	95.72	-0.0109
HLA-DR3/DR52	LPTPKVIGIDLGTTYCSVG	Glutathione(C)@16	HSP13_HUMAN	Heat shock 70 kDa protein 13	99	-0.0045
HLA-DQ2	IATGKMLSLAEQQLVDC	Glutathione(C)@17	CATH_HUMAN	Pro-cathepsin H	97.98	-0.0132
HLA-DQ2	SPEPEAEAEAAAGPGPC	Glutathione(C)@17	SQSTM_HUMAN	Sequestosome-1	98.01	-0.0027
HLA-DQ2	DPTDGSILACDPGLSRTCDQ	Glutathione(C)@18	ITAL_HUMAN	Integrin alpha-L	96.63	0.0041
HLA-DR3/DR52	LPLPTPKVIGIDLGTTYCSVG	Glutathione(C)@18	HSP13_HUMAN	Heat shock 70 kDa protein 13	99	-0.0149
HLA-DR3/DR52	DPTDGSILACDPGLSRTCDQN	Glutathione(C)@18	ITAL_HUMAN	Integrin alpha-L	99	-0.0082
HLA-DR3/DR52	DPTDGSILACDPGLSRTCD	Glutathione(C)@18	ITAL_HUMAN	Integrin alpha-L	99	-0.0064
HLA-DR3/DR52	DPTDGSILACDPGLSRTCDQ	Glutathione(C)@18	ITAL_HUMAN	Integrin alpha-L	99	-0.0056
HLA-DR3/DR52	DPTDGSILACDPGLSRTC	Glutathione(C)@18	ITAL_HUMAN	Integrin alpha-L	99	0.0041
HLA-DR3/DR52	DCAQYFLDKIDVIKQ	Glutathione(C)@2	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	0.0383
HLA-DR3/DR52	GCDVGPDGRLLRGHNQ	Glutathione(C)@2	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	99	-0.0012
HLA-DR3/DR52	KCKQLLQDEKAKCNKYA	Glutathione(C)@2	TAXB1_HUMAN	Tax1-binding protein 1	98.78	0.0009

HLA-DR3/DR52	DCPSDWKTDSTCRMVTSE	Glutathione(C)@2	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0083
HLA-DR3/DR52	DCPSDWKTDSTCRMVTS	Glutathione(C)@2	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0076
HLA-A1,B3,Cw7	TSCADTLRY	Glutathione(C)@3	MGRN1_HUMAN	E3 ubiquitin-protein ligase MGRN1	98.65	0.0004
HLA-DP3/4	IPCEKVSTLPAITLK	Glutathione(C)@3	CATD_HUMAN	Cathepsin D	98.12	0.0118
HLA-DP3/4	IPCEKVSTLPAITLKL	Glutathione(C)@3	CATD_HUMAN	Cathepsin D	98.55	-0.0015
HLA-DR3/DR52	INCPIQKDKTYSYLNK	Glutathione(C)@3	NPC2_HUMAN	Epididymal secretory protein E1	98.85	0.0006
HLA-DR3/DR52	IDCAQYFLDKIDVIK	Glutathione(C)@3	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	-0.0131
HLA-DR3/DR52	IDCAQYFLDKIDVIKQ	Glutathione(C)@3	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	-0.0129
HLA-DR3/DR52	YGCDVGPDGRLLRGHNQY	Glutathione(C)@3	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	96.02	0.004
HLA-DR3/DR52	SPCPRELGPDPLLARHLEE	Glutathione(C)@3	IL4RA_HUMAN	Interleukin-4 receptor subunit alpha	99	0.0035
HLA-DR3/DR52	GECITLDKVCNMAR	Glutathione(C)@3	LDLR_HUMAN	Low-density lipoprotein receptor	98.13	-0.0067
HLA-DR3/DR52	GECITLDKVCNMARD	Glutathione(C)@3	LDLR_HUMAN	Low-density lipoprotein receptor	97.85	-0.006
HLA-DR3/DR52	NKCKQLLQDEKAKCNKYA	Glutathione(C)@3	TAXB1_HUMAN	Tax1-binding protein 1	98.56	0.0031
HLA-DR3/DR52	GDCPSDWKTDSTCRMVTSE	Glutathione(C)@3	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0082
HLA-DR3/DR52	GDCPSDWKTDSTCRMVTS	Glutathione(C)@3	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0049
HLA-A1,B3,Cw7	LVDCSTEKY	Glutathione(C)@4	CATS_HUMAN	Cathepsin S	98.51	-0.0035
HLA-A1,B3,Cw7	GSDCTTIHY	Glutathione(C)@4	P53_HUMAN	Cellular tumor antigen p53	99	0.0013
HLA-A1,B3,Cw7	VTECEKYAQLY	Glutathione(C)@4	CUL9_HUMAN	Cullin-9	99	-0.0027
HLA-A1,B3,Cw7	RSDCLGEHLY	Glutathione(C)@4	ICLN_HUMAN	Methylosome subunit pICln	99	-0.0023
HLA-A1,B3,Cw7	VSGCPLPEACELY	Glutathione(C)@4	NAT10_HUMAN	N-acetyltransferase 10	98	-0.0061
HLA-A1,B3,Cw7	QTDCAPNNGY	Glutathione(C)@4	NOMO3_HUMAN	Nodal modulator 3	99	-0.0047
HLA-A1,B3,Cw7	DMICRAHQL	Glutathione(C)@4	PP4C_HUMAN	Serine/threonine-protein phosphatase 4 catalytic subunit	98.61	-0.0025
HLA-A1,B3,Cw7	DLICRAHQV	Glutathione(C)@4	PP1B_HUMAN	Serine/threonine-protein phosphatase PP1-beta catalytic subunit	99	0.0002
HLA-DR3/DR52	SGECITLDKVCNMARD	Glutathione(C)@4	LDLR_HUMAN	Low-density lipoprotein receptor	99	-0.0012
HLA-DR3/DR52	EKDCLNLDKNLIKYDLQ	Glutathione(C)@4	PTPRC_HUMAN	Receptor-type tyrosine-protein phosphatase C	95.96	-0.0023
HLA-DR3/DR52	SPHCPVYVPDPTSTIKPGPN	Glutathione(C)@4	HCK_HUMAN	Tyrosine-protein kinase HCK	98.4	-0.003
HLA-A1,B3,Cw7	ASEVCPPPGY	Glutathione(C)@5	PIAS3_HUMAN	E3 SUMO-protein ligase PIAS3	99	-0.0007
HLA-A1,B3,Cw7	YTDLCMFEY	Glutathione(C)@5	IF122_HUMAN	Intraflagellar transport protein 122 homolog	99	-0.0036
HLA-DP3/4	DPHLCDFLETHFLDEEVK	Glutathione(C)@5	FRIL_HUMAN	Ferritin light chain	99	-0.0078
HLA-A1,B3,Cw7	VTENECQNY	Glutathione(C)@6	BECN1_HUMAN	Beclin-1	99	-0.0009
HLA-A1,B3,Cw7	HLDFHCNEY	Glutathione(C)@6	DCA17_HUMAN	DDB1- and CUL4-associated factor 17	99	0.0076
HLA-A1,B3,Cw7	LTESPCALVASQY	Glutathione(C)@6	ENPL_HUMAN	Endoplasmin	99	0.0014
HLA-A1,B3,Cw7	LADLSCLVY	Glutathione(C)@6	ERH_HUMAN	Enhancer of rudimentary homolog	96.87	-0.0076
HLA-A1,B3,Cw7	KLDTLCDLY	Glutathione(C)@6	IF4A1_HUMAN	Eukaryotic initiation factor 4A-I	98.82	-0.0017
HLA-A1,B3,Cw7	MLKEVCTAL	Glutathione(C)@6	SRP54_HUMAN	Signal recognition particle 54 kDa protein	97.38	0.0003
HLA-A1,B3,Cw7	NSELSCQLY	Glutathione(C)@6	TYSY_HUMAN	Thymidylate synthase	99	-0.0004
HLA-DR3/DR52	LADLSCLVY	Glutathione(C)@6	ERH_HUMAN	Enhancer of rudimentary homolog	99	-0.0039
HLA-A1,B3,Cw7	ISDPSNCSQY	Glutathione(C)@7	HSF2_HUMAN	Heat shock factor protein 2	99	0.0029
HLA-A1,B3,Cw7	ESDAVECLNY	Glutathione(C)@7	HNRPK_HUMAN	Heterogeneous nuclear ribonucleoprotein K	96.77	-0.0023
HLA-A1,B3,Cw7	VSDNGPCLGY	Glutathione(C)@7	ACSL5_HUMAN	Long-chain-fatty-acid--CoA ligase 5	99	0.002
HLA-A1,B3,Cw7	VTDDLVCLVY	Glutathione(C)@7	SRP09_HUMAN	Signal recognition particle 9 kDa protein	98.33	-0.0095
HLA-A1,B3,Cw7	ESENVVCHFY	Glutathione(C)@7	TXND9_HUMAN	Thioredoxin domain-containing protein 9	99	0.0073
HLA-A1,B3,Cw7	NIELGTACGKYY	Glutathione(C)@8	RL30_HUMAN	60S ribosomal protein L30	99	0.0013
HLA-A1,B3,Cw7	FLDTDTICY	Glutathione(C)@8	ATPF2_HUMAN	ATP synthase mitochondrial F1 complex assembly factor 2	97.21	0.0008
HLA-A1,B3,Cw7	MSDTAGTCY	Glutathione(C)@8	IGHM_HUMAN	Ig mu chain C region	99	0.0015
HLA-A1,B3,Cw7	QSELPVTCGEVKGTLY	Glutathione(C)@8	SP100_HUMAN	Nuclear autoantigen Sp-100	98.15	0.0076
HLA-A1,B3,Cw7	FTEMDELCY	Glutathione(C)@8	S4A7_HUMAN	Sodium bicarbonate cotransporter 3	97.01	0.0068
HLA-A1,B3,Cw7	ASDSGKYLCY	Glutathione(C)@9	BT3A1_HUMAN	Butyrophilin subfamily 3 member A1	99	0.0012

HLA-A1,B3,Cw7	LLDQGTSQCY	Glutathione(C)@9	GNPAT_HUMAN	Dihydroxyacetone phosphate acyltransferase	99	0
HLA-A1,B3,Cw7	NTDSSALDCY	Glutathione(C)@9	KEAP1_HUMAN	Kelch-like ECH-associated protein 1	99	-0.0025
HLA-A1,B3,Cw7	YSDLASLGCISRY	Glutathione(C)@9	SC24A_HUMAN	Protein transport protein Sec24A	99	-0.0057
HLA-A1,B3,Cw7	ATDASSLVCY	Glutathione(C)@9	S4A7_HUMAN	Sodium bicarbonate cotransporter 3	99	-0.0046
HLA-DQ2	LFGNMEGDCPSDWKT	Glutathione(C)@9; Oxidation(P)@10	TFR1_HUMAN	Transferrin receptor protein 1	97.11	-0.0043
HLA-DR3/DR52	AEREIVRDIKEKLCYVA	Oxidation(C)@14; Dioxidation(Y)@15	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0205
HLA-DR3/DR52	DPTDGSILACDPGLSRTCDQNT	Oxidation(C)@18; Deamidated(Q)@20; Deamidated(N)@21	ITAL_HUMAN	Integrin alpha-L	99	0.0387
HLA-DP3/4	AGPGPCERLLSRVAALFPALRPG	Oxidation(P)@3; Dioxidation(C)@6	SQSTM_HUMAN	Sequestosome-1	96.83	-0.019
HLA-DP3/4	TWACSHSMRYFDTAVSRPG	Oxidation(W)@2; Methyl(C)@4	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	97.84	0.0027
HLA-DR3/DR52	DDDIAALVVDNGSGMCKAG	Protein Terminal Acetyl@N-term; Dioxidation(C)@16; Oxidation(K)@17	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0139
HLA-DR3/DR52	DDDIAALVVDNGSGMCKA	Protein Terminal Acetyl@N-term; Dioxidation(C)@16; Oxidation(K)@17	ACTB_HUMAN	Actin, cytoplasmic 1	98.74	0.0034
HLA-DR3/DR52	DDDIAALVVDNGSGMCK	Protein Terminal Acetyl@N-term; Dioxidation(C)@16; Oxidation(K)@17	ACTB_HUMAN	Actin, cytoplasmic 1	99	0.0171
HLA-DR3/DR52	EEEIAALVIDNGSGMCKA	Protein Terminal Acetyl@N-term; Dioxidation(C)@16; Oxidation(K)@17	ACTG_HUMAN	Actin, cytoplasmic 2	98.68	-0.032
HLA-DR3/DR52	EEEIAALVIDNGSGMCKA	Protein Terminal Acetyl@N-term; Dioxidation(M)@15; Oxidation(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	98.35	-0.0256
HLA-DR3/DR52	DDDIAALVVDNGSGMC	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0147
HLA-DR3/DR52	DDDIAALVVDNGSGMCK	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0022
HLA-DR3/DR52	DDDIAALVVDNGSGMCKA	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0015
HLA-DR3/DR52	DDDIAALVVDNGSGMCKAG	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	0.0066
HLA-DR3/DR52	EEEIAALVIDNGSGMCKAGFAGDDAPR	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	99	-0.0246
HLA-DR3/DR52	EEEIAALVIDNGSGMCK	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	99	-0.013
HLA-DR3/DR52	EEEIAALVIDNGSGMCKAG	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	98.26	-0.0103
HLA-DR3/DR52	EEEIAALVIDNGSGMC	Protein Terminal Acetyl@N-term; Glutathione(C)@16	ACTG_HUMAN	Actin, cytoplasmic 2	99	-0.0086
HLA-DR3/DR52	SKGPAVGIDLGTTYSCVG	Protein Terminal Acetyl@N-term; Glutathione(C)@16	HSP7C_HUMAN	Heat shock cognate 71 kDa protein	98.57	-0.0053
HLA-DP3/4	DDDIAALVVDNGSGMCKA	Protein Terminal Acetyl@N-term; Trioxidation(C)@16	ACTB_HUMAN	Actin, cytoplasmic 1	99	0.0002
HLA-DR3/DR52	CPIQKDKTYSYLNK	Trioxidation(C)@1	NPC2_HUMAN	Epididymal secretory protein E1	99	0.0015
HLA-DR3/DR52	CPPTVCQDPKEPRAL	Trioxidation(C)@1	TRAF1_HUMAN	TNF receptor-associated factor 1	99	-0.0046
HLA-DR3/DR52	CPSDWKTDSTCRMVTS	Trioxidation(C)@1	TFR1_HUMAN	Transferrin receptor protein 1	97.58	-0.0049
HLA-DR3/DR52	CPSDWKTDSTCRMVTSE	Trioxidation(C)@1	TFR1_HUMAN	Transferrin receptor protein 1	99	-0.0021
HLA-DR3/DR52	CPSDWKTDSTCRM	Trioxidation(C)@1	TFR1_HUMAN	Transferrin receptor protein 1	98.12	-0.0021
HLA-DR3/DR52	CEPDYYLDEAGRCT	Trioxidation(C)@1	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	99	-0.0103
HLA-DR3/DR52	CRKQCEPDYYLDEAGRCT	Trioxidation(C)@1	TNR8_HUMAN	Tumor necrosis factor receptor superfamily member 8	95.89	0.003
HLA-DQ2	LPSTEDVYDCRVEHWG	Trioxidation(C)@10	DRA_HUMAN	HLA class II histocompatibility antigen, DR alpha chain	99	-0.0044
HLA-DQ2	LPSTEDVYDCRVEHWG	Trioxidation(C)@10; Oxidation(W)@15	DRA_HUMAN	HLA class II histocompatibility antigen, DR alpha chain	98.57	-0.0012
HLA-A1,B3,Cw7	ASEEARSLRECELY	Trioxidation(C)@11	KAP0_HUMAN	cAMP-dependent protein kinase type I-alpha regulatory subunit	99	-0.0002
HLA-DR3/DR52	AALVVDNGSGMCKA	Trioxidation(C)@12	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0269
HLA-DP3/4	TNAFAFTQFGVLCA	Trioxidation(C)@13	S43A3_HUMAN	Solute carrier family 43 member 3	97.38	-0.0214
HLA-DR3/DR52	DDIAALVVDNGSGMCKA	Trioxidation(C)@15	ACTB_HUMAN	Actin, cytoplasmic 1	99	-0.0154
HLA-DR3/DR52	DCAQYFLDKIDVIK	Trioxidation(C)@2	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	-0.0083
HLA-DR3/DR52	DCAQYFLDKIDVIKQ	Trioxidation(C)@2	GNAS2_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short	99	-0.0035
HLA-DR3/DR52	GCDLGPDGRLLRGYD	Trioxidation(C)@2	1C07_HUMAN	HLA class I histocompatibility antigen, Cw-7 alpha chain	97.2	-0.0027
HLA-DR3/DR52	YGCDVGPDGRLLRGHN	Trioxidation(C)@3	1B08_HUMAN	HLA class I histocompatibility antigen, B-8 alpha chain	99	0.0071
HLA-DP3/4	DPHLCDFLETHFLDEEVK	Trioxidation(C)@5	FRIL_HUMAN	Ferritin light chain	99	-0.0097
HLA-DP3/4	GPGPCERLLSRVAALFPALRPG	Trioxidation(C)@5	SQSTM_HUMAN	Sequestosome-1	99	-0.0109
HLA-DR3/DR52	AKPDCIITCDGKNLTIKTE	Trioxidation(C)@5	FABP5_HUMAN	Fatty acid-binding protein, epidermal	99	-0.0223
HLA-DR3/DR52	EGQVISCLKLRYADQR	Trioxidation(C)@7	GSLG1_HUMAN	Golgi apparatus protein 1	99	-0.0041
HLA-DQ2	VGGFYGGCNEALMK	Trioxidation(C)@8	CATC_HUMAN	Dipeptidyl peptidase 1	95.63	0.0047

CLASS I TRANSFECTANTS

Allele	Peptide	Modification	Accession	Protein	Confidence	
HLA-B5701	CPGCSTGGARSW	Cys->Dha(C)@1; Dioxidation(P)@2	PDD2L_HUMAN	Programmed cell death protein 2-like	97.31	-0.0211
HLA-B5701	DTLRYQANNCPICR	Cys->Dha(C)@10; Dioxidation(C)@13	MGRN1_HUMAN	E3 ubiquitin-protein ligase MGRN1	99	-0.0254
HLA-B5701	SCSVTQTGVQW	Cys->Dha(C)@2	SELN_HUMAN	Selenoprotein N	99	0.0483
HLA-B5703	DCPPPPPPP	Cys->Dha(C)@2	B4DSP0_HUMAN	HCG1642748, isoform CRA_b cDNA FLJ56638	99	0.0379
HLA-B5703	SCSVAQAGVQW	Cys->Dha(C)@2	Q9P147_HUMAN	PRO2822 - Homo sapiens (Human). OK/SW-CL.87 Putative uncharacterized protein	95.51	0.0099
HLA-B5703	SCSVTQAGVQW	Cys->Dha(C)@2	Q659F1_HUMAN	Putative uncharacterized protein DKFZp434K213	98.12	0.0498
HLA-B5703	SCSVTQTGVQW	Cys->Dha(C)@2	SELN_HUMAN	Selenoprotein N	98.31	0.042
HLA-B5801	SCSVAQAGVQW	Cys->Dha(C)@2	Q8NI68_HUMAN	OK/SW-CL.87	96.33	0.04
HLA-B5801	SCSVTQTGVQW	Cys->Dha(C)@2	SELN_HUMAN	Selenoprotein N	95.66	0.048
HLA-B5701	ACPGCSTGGARSW	Cys->Dha(C)@2; Dioxidation(C)@5	PDD2L_HUMAN	Programmed cell death protein 2-like	99	-0.0211
HLA-B5703	EGCSSPIVVKF	Cys->Dha(C)@3	Q5VZZ6_HUMAN	CUG triplet repeat, RNA binding protein 2	98.48	0.0418
HLA-B5703	PDCPPPPPP	Cys->Dha(C)@3	B4DSP0_HUMAN	HCG1642748, isoform CRA_b cDNA FLJ56638	99	0.0349
HLA-B5703	QSCFFSGRTAK	Cys->Dha(C)@3	UTRO_HUMAN	Utrophin	95.67	-0.0478
HLA-B5703	MLCSVGASKAVFLW	Cys->Dha(C)@3	WSB1_HUMAN	WD repeat and SOCS box-containing protein 1	97.7	0.0172
HLA-B5801	SPCQPDSGACQVAKSDE	Cys->Dha(C)@3; Dioxidation(C)@10	Q59EZ3_HUMAN	Insulin-like growth factor 2 receptor variant	99	-0.0157
HLA-B5703	YTCSFCGKTKM	Cys->Dha(C)@3; Dioxidation(C)@6	RL37A_HUMAN	60S ribosomal protein L37a	99	-0.0054
HLA-B5703	SSCPVCQTRF	Cys->Dha(C)@3; Dioxidation(C)@6	TRI22_HUMAN	E3 ubiquitin-protein ligase TRIM22	99	-0.0198
HLA-B5703	AACPFCAHQL	Cys->Dha(C)@3; Dioxidation(C)@6	PELI1_HUMAN	Protein pellino homolog 1	99	-0.0245
HLA-B5701	ASCSQDCLIRIW	Cys->Dha(C)@3; Dioxidation(C)@7	ELP2_HUMAN	Elongator complex protein 2	99	-0.0237
HLA-B5701	GFSVCGQISIIRF	Cys->Dha(C)@5	NOMO3_HUMAN	Nodal modulator 3	98.63	-0.0141
HLA-B5703	GFSVCGQISIIRF	Cys->Dha(C)@5	NOMO1_HUMAN	Nodal modulator 1	98.43	-0.0103
HLA-1502	AGALCAGHIAGLY	Cys->Dha(C)@5	Q9H2L7_HUMAN	DC33	97.66	-0.0568
HLA-B5801	HSVMCKICEQF	Cys->Dha(C)@5; Dioxidation(C)@8	B7Z2P6_HUMAN	cDNA FLJ55296, highly similar to Homo sapiens WD repeat domain 42A (WDR42A), mRNA	99	-0.0182
HLA-B5801	LLFETGSCSVAQAGVQW	Cys->Dha(C)@8	Q8NI68_HUMAN	OK/SW-CL.87	99	0.0307
HLA-B5801	KMFSEADACELW	Cys->Dha(C)@9; Dioxidation(W)@12	SPTB2_HUMAN	Spectrin beta chain, brain 1	99	-0.0302
HLA-1502	EGAHARVQTCINLITSQEY	Dehydro(C)@10	MKNK2_HUMAN	MAP kinase-interacting serine/threonine-protein kinase 2	99	-0.0419
HLA-B5703	CIDCTTNFSCTYGKPVTF	Delta:H(4)C(2)@N-term	TM2D3_HUMAN	TM2 domain-containing protein 3	97.97	0.0722
HLA-B5701	CPGCSTGGARSW	Dioxidation(C)@1; Cys->Dha(C)@4	PDD2L_HUMAN	Programmed cell death protein 2-like	99	-0.0164
HLA-B5701	ISISTDGKICSWS	Dioxidation(C)@10	DC1I2_HUMAN	Cytoplasmic dynein 1 intermediate chain 2	99	-0.0322
HLA-B5701	DQTQLLTLVCQLYQGKKP	Dioxidation(C)@10	GILT_HUMAN	Gamma-interferon-inducible lysosomal thiol reductase	96.38	-0.0005
HLA-B5703	VSDHEATLRCW	Dioxidation(C)@10; Dioxidation(W)@11	B5ARH3_HUMAN	MHC class I antigen	99	-0.0009
HLA-B5801	VSDHEATLRCWA	Dioxidation(C)@10; Dioxidation(W)@11	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	98.98	-0.0202
HLA-B5801	VSDHEATLRCW	Dioxidation(C)@10; Dioxidation(W)@11	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	98.03	-0.0003
HLA-B5801	VSDHEATLRCWA	Dioxidation(C)@10; Oxidation(W)@11	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	99	-0.0185
HLA-B4403	SCEFGSAKYY	Dioxidation(C)@2	Q53HC3_HUMAN	Solute carrier family 25 member 3 isoform b variant (Fragment)	98.46	-0.0183
HLA-B4403	VCEEYIVKKL	Dioxidation(C)@2	S35F2_HUMAN	Solute carrier family 35 member F2	99	-0.0103
HLA-B5801	SCVISSVGANEIW	Dioxidation(C)@2	SDS3_HUMAN	Sin3 histone deacetylase corepressor complex component SDS3	99	-0.0152
HLA-B5701	ACPGCSTGGARSW	Dioxidation(C)@2; Cys->Dha(C)@5	PDD2L_HUMAN	Programmed cell death protein 2-like	99	-0.0211
HLA-B2705	GRCGSVLVR	Dioxidation(C)@3	RS2_HUMAN	40S ribosomal protein S2	99	-0.0138
HLA-1502	FLCGVMKTY	Dioxidation(C)@3	Q6MZS5_HUMAN	Putative uncharacterized protein DKFZp686A13234 (Fragment)	98.71	0.0033
HLA-B5701	SGTVCLDVINQTW	Dioxidation(C)@5	UBE2H_HUMAN	Ubiquitin-conjugating enzyme E2 H	98.56	-0.024
HLA-B5801	LAEVCTVLLR	Dioxidation(C)@5	Q9UL32_HUMAN	Bcl-2 related ovarian killer	99	0
HLA-B5701	TASVVCLLNNFY	Dioxidation(C)@6	IGKC_HUMAN	Ig kappa chain C region	95.18	-0.0051
HLA-B5701	TASVVCLLNNFYPRE	Dioxidation(C)@6	Q8TCD0_HUMAN	Putative uncharacterized protein	95.86	-0.0019
HLA-B5701	HTAHIACKF	Dioxidation(C)@7	EF1A1_HUMAN	Elongation factor 1-alpha 1	99	0.0093
HLA-B2705	SFDDLIACVS	Dioxidation(C)@8	ALG13_HUMAN	UDP-N-acetylglucosamine transferase subunit ALG13 homolog	98.99	-0.012

HLA-B5701	SGTASVVCLLNNFYPRE	Dioxidation(C)@8	IGKC_HUMAN	Ig kappa chain C region	98.58	-0.0223
HLA-B5701	SFDDLIACVS	Dioxidation(C)@8	ALG13_HUMAN	UDP-N-acetylglucosamine transferase subunit ALG13 homolog	98.71	-0.0215
HLA-B5703	SFDDLIACVS	Dioxidation(C)@8	ALG13_HUMAN	UDP-N-acetylglucosamine transferase subunit ALG13 homolog	99	-0.0057
HLA-B5801	KCVQGILQC	Dioxidation(C)@9	DYH6_HUMAN	Dynein heavy chain 6, axonemal	99	0.0626
HLA-B5801	SDHEATLRCW	Dioxidation(C)@9	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	99	-0.0098
HLA-1502	TLPEFFPVCFS	Dioxidation(C)@9	VP13C_HUMAN	Vacuolar protein sorting-associated protein 13C	97.39	-0.0169
HLA-A1	YSDLASLGCISRYS	Dioxidation(C)@9	SC24A_HUMAN	Protein transport protein Sec24A	97.99	-0.0187
HLA-B5801	SDHEATLRCWA	Dioxidation(C)@9; Dioxidation(W)@10	1B58_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	99	-0.0194
HLA-B5801	SDHEATLRCWA	Dioxidation(C)@9; Oxidation(W)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	95.87	-0.0208
HLA-B5801	VSDHEATLRCW	Dioxidation(R)@9; Cys->Dha(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	96.89	-0.0194
HLA-B5801	VSDHEATLRCW	Dioxidation(R)@9; Dioxidation(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	97.64	-0.0003
HLA-B5801	QNTETAAQCNAVE	Gln->pyro-Glu@N-term; Glutathione(C)@9	SAP_HUMAN	Proactivator polypeptide Contains: Saposin-A	99	0.0024
HLA-B5801	QNTETAAQCNAVEH	Gln->pyro-Glu@N-term; Glutathione(C)@9	SAP_HUMAN	Proactivator polypeptide Contains: Saposin-A	96.83	-0.0093
HLA-B5701	VSDHEATLRCW	Glutathione(C)@10	D9UAZ5_HUMAN	MHC class I antigen	98.8	0.0009
HLA-B5701	VSDHEATLRC	Glutathione(C)@10	D9UAZ5_HUMAN	MHC class I antigen	98.74	0.0169
HLA-B5701	NTKGENINIC	Glutathione(C)@10	THOC3_HUMAN	THO complex subunit 3	99	0.0077
HLA-B5703	VSDHEATLRC	Glutathione(C)@10	B5ARH3_HUMAN	MHC class I antigen	98.96	0.0172
HLA-B5703	ISDHEATLRC	Glutathione(C)@10	Q95353_HUMAN	MHC class I HLA-Bw62	98.48	0.0158
HLA-B5801	GSLPLNAEACW	Glutathione(C)@10	Q8N995_HUMAN	cDNA FLJ38173 fis, clone FCBBF1000053, highly similar to HYDROXYMETHYLGLUTARYL-COA SYNTHASE,	97.55	0.0298
HLA-B5801	RAVREDLGGC	Glutathione(C)@10	CC85B_HUMAN	Coiled-coil domain-containing protein 85B	99	0.0063
HLA-B5801	ISDHEATLRC	Glutathione(C)@10	Q7YNX1_HUMAN	Leucocyte antigen B	99	0.0045
HLA-B5801	VSDHEATLRC	Glutathione(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	97.8	0.0145
HLA-B5801	VSDHEATLRCW	Glutathione(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	96.82	-0.0009
HLA-B5801	ISDHEATLRCW	Glutathione(C)@10	D9UAZ9_HUMAN	MHC class I antigen	96.83	-0.0009
HLA-B4403	MEFDPNSNPPCY	Glutathione(C)@11	RPB7_HUMAN	DNA-directed RNA polymerase II subunit RPB7	99	0.0024
HLA-B5801	DSNVTASPTAPACPS	Glutathione(C)@13	TNIP1_HUMAN	TNFAIP3-interacting protein 1	99	-0.0063
HLA-B5703	RAKCFEKNEAIQAAHDA	Glutathione(C)@4	UCHL1_HUMAN	Ubiquitin carboxyl-terminal hydrolase isozyme L1	98.39	-0.0086
HLA-1502	TQACVGTTY	Glutathione(C)@4	WDR25_HUMAN	WD repeat-containing protein 25	98.84	-0.0013
HLA-B5703	VTLTCLLNF	Glutathione(C)@5	Q0EAF5_HUMAN	CD22 antigen	96.2	-0.0048
HLA-B5703	ASMQCVLTF	Glutathione(C)@5	GLE1_HUMAN	Nucleoporin GLE1	99	0
HLA-B5703	SSASCANNAF	Glutathione(C)@5	TISD_HUMAN	Zinc finger protein 36, C3H1 type-like 2	99	0.0013
HLA-A1	ASEVCPPPGY	Glutathione(C)@5	PIAS3_HUMAN	E3 SUMO-protein ligase PIAS3	98.37	-0.0059
HLA-B2705	IFDLSCMGF	Glutathione(C)@6	CK5P2_HUMAN	CDK5 regulatory subunit-associated protein 2	99	0.0046
HLA-B5701	IFDLSCMGF	Glutathione(C)@6	CK5P2_HUMAN	CDK5 regulatory subunit-associated protein 2	98.63	-0.0071
HLA-B5701	KTAVICQLDYW	Glutathione(C)@6	HERC5_HUMAN	E3 ISG15--protein ligase HERC5	98.72	0.0017
HLA-B5801	KTIDICHDHFGW	Glutathione(C)@6	DHCR7_HUMAN	7-dehydrocholesterol reductase	99	-0.0051
HLA-B5801	STDGSCTVRW	Glutathione(C)@6	Q5VTU4_HUMAN	Dynein, light chain	99	-0.0125
HLA-B5801	KTAVICQLDYW	Glutathione(C)@6	HERC5_HUMAN	E3 ISG15--protein ligase HERC5	99	0.0025
HLA-B5801	IFDLSCMGF	Glutathione(C)@6	Q7Z3M0_HUMAN	Putative uncharacterized protein DKFZp686M1993	99	-0.002
HLA-1502	IFDLSCMGF	Glutathione(C)@6	F8WCI3_HUMAN	CDK5 regulatory subunit associated protein 2	99	0.0021
HLA-A1	LADLSCLVY	Glutathione(C)@6	ERH_HUMAN	Enhancer of rudimentary homolog	97.01	0.0013
HLA-A1	NSELSCQLY	Glutathione(C)@6	TYSY_HUMAN	Thymidylate synthase	94.34	-0.0026
HLA-B2705	YYDAIACL	Glutathione(C)@7	AIP_HUMAN	AH receptor-interacting protein	98.16	0.0051
HLA-B5701	SSIQDLCVTW	Glutathione(C)@7	CNDG2_HUMAN	Condensin-2 complex subunit G2	99	0.0014
HLA-B5701	RVYQSLCPTSW	Glutathione(C)@7	CX6B1_HUMAN	Cytochrome c oxidase subunit 6B1	98.78	-0.0024
HLA-B5701	SSIDTTCTIW	Glutathione(C)@7	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	98.26	-0.0021
HLA-B5703	SSIDTTCTIW	Glutathione(C)@7	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	97.97	-0.0021
HLA-B5801	SSIQDLCVTW	Glutathione(C)@7	CNDG2_HUMAN	Condensin-2 complex subunit G2	99	-0.0035

HLA-B5801	SSIDTTCTIW	Glutathione(C)@7	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	96.15	0.0022
HLA-B5801	KVFDPSCGLPYYW	Glutathione(C)@7	Q4VY28_HUMAN	Polyglutamine binding protein variant 12	99	-0.0007
HLA-B5801	FSEADACELW	Glutathione(C)@7	SPTB2_HUMAN	Spectrin beta chain, brain 1	99	0.0057
HLA-1502	SVSGAGCTTY	Glutathione(C)@7	CE051_HUMAN	UPF0600 protein C5orf51	99	-0.0012
HLA-B2705	HFDDTVVCL	Glutathione(C)@8	HNRPU_HUMAN	Heterogeneous nuclear ribonucleoprotein U	96.56	0.0088
HLA-B5701	TSSIDTTCTIW	Glutathione(C)@8	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	99	-0.0025
HLA-B5701	QTSSIVECW	Glutathione(C)@8	MED16_HUMAN	Mediator of RNA polymerase II transcription subunit 16	95.5	0.0039
HLA-B5701	GTSLLIGCILY	Glutathione(C)@8	SERC5_HUMAN	Serine incorporator 5	95.88	-0.0033
HLA-B5701	HFDDTVVCL	Glutathione(C)@8	Q96BA7_HUMAN	HNRPU protein	99	-0.0021
HLA-B5701	RAYLEGLCVEW	Glutathione(C)@8	Q29669_HUMAN	MHC class I antigen HLA-B35	99	-0.002
HLA-B5703	HFDDTVVCL	Glutathione(C)@8	B4DLR3_HUMAN	cDNA FLJ54020, highly similar to Heterogeneous nuclear ribonucleoprotein U	99	-0.0008
HLA-B5703	LSPDVTPCF	Glutathione(C)@8	CC50A_HUMAN	Cell cycle control protein 50A	95.74	0.0149
HLA-B5703	TSSIDTTCTIW	Glutathione(C)@8	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	98.24	-0.01
HLA-B5703	QTSSIVECW	Glutathione(C)@8	MED16_HUMAN	Mediator of RNA polymerase II transcription subunit 16	97.87	-0.001
HLA-B5703	GSAKDLICTHF	Glutathione(C)@8	STRAA_HUMAN	STE20-related kinase adapter protein alpha	99	-0.0019
HLA-B5801	ISDPLQQCF	Glutathione(C)@8	TRIP4_HUMAN	Activating signal cointegrator 1	97.65	0.0067
HLA-B5801	TSSIDTTCTIW	Glutathione(C)@8	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	97.06	0.0034
HLA-B5801	HFDDTVVCL	Glutathione(C)@8	Q96BA7_HUMAN	HNRPU protein	96.61	-0.0011
HLA-B5801	QTSSIVECW	Glutathione(C)@8	MED16_HUMAN	Mediator of RNA polymerase II transcription subunit 16	98.51	-0.0039
HLA-B5801	RAYLEGLCVEW	Glutathione(C)@8	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	98.06	-0.0022
HLA-1502	FMDESTQCF	Glutathione(C)@8	Q5JW58_HUMAN	Chromosome 20 open reading frame 172 (Fragment)	96.71	0.0066
HLA-1502	TQSNAILCY	Glutathione(C)@8	GSTM1_HUMAN	Glutathione S-transferase Mu 1	96.68	-0.0011
HLA-1502	HFDDTVVCL	Glutathione(C)@8	B3KX72_HUMAN	Uncharacterized protein	96.84	-0.0022
HLA-A1	LSELAALCY	Glutathione(C)@8	RBP2_HUMAN	E3 SUMO-protein ligase RanBP2	95.57	-0.0051
HLA-B5701	GTSSIDTTCTI	Glutathione(C)@9	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	96.96	0.0136
HLA-B5701	LALFNPDVC	Glutathione(C)@9	NDUA4_HUMAN	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	96.6	0.0155
HLA-B5701	SDHEATLRC	Glutathione(C)@9	D9UAZ5_HUMAN	MHC class I antigen	99	0.0151
HLA-B5703	SDHEATLRC	Glutathione(C)@9	Q95353_HUMAN	MHC class I HLA-Bw62	97.34	0.0119
HLA-B5703	GTSSIDTTCTI	Glutathione(C)@9	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	98	0.0111
HLA-B5703	GTSSIDTTCTIW	Glutathione(C)@9	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	99	-0.0015
HLA-B5703	LALFNPDVC	Glutathione(C)@9	NDUA4_HUMAN	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	98.06	0.0064
HLA-B5801	TGIYSSTSCHKTPDK	Glutathione(C)@9	Q96NY6_HUMAN	Cathepsin H	99	0.0019
HLA-B5801	GTSSIDTTCTIW	Glutathione(C)@9	DCAF7_HUMAN	DDB1- and CUL4-associated factor 7	99	0.0029
HLA-B5801	SDHEATLRC	Glutathione(C)@9	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	96.68	0.0121
HLA-B5801	SDHEATLRCW	Glutathione(C)@9	C9E8V1_HUMAN	MHC class I antigen	97.93	-0.0085
HLA-A1	FMDVKCPGCY	Methyl(C)@9	RS27_HUMAN	40S ribosomal protein S27	99	-0.0021
HLA-B5701	LTKPIVCWC	Oxidation(C)@7	ACLY_HUMAN	ATP-citrate synthase	98.03	-0.0049
HLA-B5801	CTLSSACLIGDAW	Oxidation(C)@7	WDR6_HUMAN	WD repeat-containing protein 6	97.14	-0.0011
HLA-B5701	PPPPPPPC	Oxidation(C)@8	Q8IXZ1_HUMAN	Homeobox D8	99	0.0436
HLA-B5801	PPPPPPPC	Oxidation(C)@8	Q8IXZ1_HUMAN	Homeobox D8	98.76	0.0444
HLA-B5801	VSDHEATLRCW	Oxidation(R)@9; Dioxidation(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	99	0.0014
HLA-B5801	VSDHEATLRCWA	Trioxidation(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	99	-0.0173
HLA-B5801	VSDHEATLRCW	Trioxidation(C)@10	Q5QT34_HUMAN	HLA class I histocompatibility antigen, B-58 alpha chain	99	0.0014
HLA-B5801	LAEVCTVLLR	Trioxidation(C)@5	Q9UL32_HUMAN	Bcl-2 related ovarian killer	99	0.0006
HLA-B5701	TASVVCLLNNFYPRE	Trioxidation(C)@6	Q8TCD0_HUMAN	Putative uncharacterized protein	99	-0.0003
HLA-B5801	SDHEATLRCWA	Trioxidation(C)@9; Oxidation(W)@10	1C04_HUMAN	HLA class I histocompatibility antigen, Cw-4 alpha chain	99	-0.0264
HLA-B5801	SDHEATLRCW	Trioxidation(C)@9; Oxidation(W)@10	1C04_HUMAN	HLA class I histocompatibility antigen, Cw-4 alpha chain	97.17	-0.0021

MOUSE CELLS AND TISSUES

Allele	Peptide	Modification	Accession	Protein	Confidence	
NIT IFN Db	SAIVNLPGCSA	Glutathione(C)@9	COPG_MOUSE	Coatomer subunit gamma	99	0.002
NIT IFN Db	GAIRNACQML	Glutathione(C)@7	CUL3_MOUSE	Cullin-3	93	0.0049
NIT IFN Db	SGIRNQGGTCYL	Glutathione(C)@10	UBP40_MOUSE	Ubiquitin carboxyl-terminal hydrolase 40	98.43	0.0051
NIT IFN Db	AALCNVCEL	Glutathione(C)@7	CD041_MOUSE	UPF0636 protein C4orf41 homolog	99	-0.0005
NIT IFN Db	GQCSSVNIHYL	Dehydro(C)@3	ZRAB3_MOUSE	Zinc finger Ran-binding domain-containing protein 3	99	-0.0695
NIT IFN Kd	LYHNLCTSL	Glutathione(C)@6	MCM6_MOUSE	DNA replication licensing factor MCM6	97.84	-0.0013
NIT IFN Kd	QYEKVCKDL	Cys->Dha(C)@6	KI20B_MOUSE	Kinesin-like protein KIF20B	99	-0.0388
NIT IFN Kd	SYNCLLTCV	Glutathione(C)@4	VIR_MOUSE	Protein virilizer homolog	92.06	-0.0066
NOD thymus	SGLCNEDHL	Trioxidation(C)@4	NED4L_MOUSE	E3 ubiquitin-protein ligase NEDD4-like	99	-0.0032
NOD thymus	AAIRNSITSC	Trioxidation(C)@10	FOXN3_MOUSE	Forkhead box protein N3	99	-0.0044
NOD thymus	VAVNNTECL	Glutathione(C)@8	ZFY16_MOUSE	Zinc finger FYVE domain-containing protein 16	99	0.0006
NOD spleen [	NMCRQCFRQYAKDIGFIKLD	Dioxidation(C)@3; Cys->Dha(C)@6	RS29_MOUSE	40S ribosomal protein S29	99	-0.017
NOD spleen [	VHLTDAEKAAVSCLWGKVNSDEVGGEALGRL	Cys->Dha(C)@13; Trp->Kynurenin(W)@15	HBB1_MOUSE	Hemoglobin subunit beta-1	99	-0.0238
NOD thymus	FYLPGLAPVNFCAEEKSNECKADIELFVNR	Dioxidation(C)@12; Cys->Dha(C)@20	TM9S2_MOUSE	Transmembrane 9 superfamily member 2	98.95	-0.0345
NOD spleen k	TYSTVGPSCL	Glutathione(C)@9	OBF1_MOUSE	POU domain class 2-associating factor 1	99	0.0007
NOD spleen k	VIGGLCHSSI	Cys->Dha(C)@6	GRP1_MOUSE	RAS guanyl-releasing protein 1	99	0.0277