

#212750 CELIAC DISEASE; CD

OMIM Gene ID	HGNC	UniProtAC
146880	HLA-DQA1	P01909
604305	HLA-DQB1	P01920

Table 1: OMIM - UniProtAC mapping

Legend

- N1: #input proteins associated to the significant GO term
- N2: #proteins associated to the significant GO term
- P-value: Bonferroni-corrected p-value of Fisher's exact test
- *red*: go terms not related to the input proteins
- *blue*: go terms related to the input proteins (enriched uniquely by network-based method)
- *green*: go terms ancestors of terms enriched with the standard method (enriched uniquely by network-based method)

1 Standard enrichment

GO Term	N1	N2	P-value	Description
GO:0031295	2	93	0.000390411	T cell costimulation
GO:0031294	2	94	0.000398899	lymphocyte costimulation
GO:0019886	2	109	0.000537158	antigen processing and presentation of exogenous peptide antigen via MHC class II
GO:0002495	2	111	0.000557144	antigen processing and presentation of peptide antigen via MHC class II
GO:0002504	2	132	0.000789035	antigen processing and presentation of peptide or polysaccharide antigen via MHC class II
GO:0050852	2	134	0.000813221	T cell receptor signaling pathway
GO:0060333	2	146	0.000965991	interferon-gamma-mediated signaling pathway
GO:0050851	2	171	0.00132647	antigen receptor-mediated signaling pathway
GO:0071346	2	173	0.00135777	cellular response to interferon-gamma
GO:0034341	2	201	0.00183433	response to interferon-gamma
GO:0002478	2	254	0.00293229	antigen processing and presentation of exogenous peptide antigen
GO:0019884	2	256	0.00297874	antigen processing and presentation of exogenous antigen
GO:0050870	2	267	0.00324074	positive regulation of T cell activation
GO:0048002	2	288	0.00377161	antigen processing and presentation of peptide antigen
GO:0051251	2	345	0.00541539	positive regulation of lymphocyte activation
GO:0002429	2	366	0.00609573	immune response-activating cell surface receptor signaling pathway
GO:0002696	2	367	0.00612914	positive regulation of leukocyte activation
GO:0019882	2	376	0.00643386	antigen processing and presentation
GO:0050867	2	380	0.00657163	positive regulation of cell activation
GO:0050863	2	385	0.00674596	regulation of T cell activation
GO:0002768	2	486	0.0107555	immune response-regulating cell surface receptor signaling pathway
GO:0002757	2	508	0.0117523	immune response-activating signal transduction
GO:0051249	2	513	0.011985	regulation of lymphocyte activation
GO:0019221	2	546	0.0135782	cytokine-mediated signaling pathway
GO:0002253	2	566	0.014592	activation of immune response
GO:0002694	2	584	0.0155358	regulation of leukocyte activation
GO:0002764	2	615	0.0172304	immune response-regulating signaling pathway
GO:0050865	2	624	0.0177388	regulation of cell activation
GO:0071345	2	725	0.0239513	cellular response to cytokine stimulus
GO:0050778	2	770	0.027019	positive regulation of immune response
GO:0034097	2	880	0.0352958	response to cytokine
GO:0002455	1	11	0.0378828	humoral immune response mediated by circulating immunoglobulin

Table 2: Overrepresented GO terms with the standard enrichment

2 Network-based enrichment

No novel enriched terms