

#248600 MAPLE SYRUP URINE DISEASE; MSUD

OMIM Gene ID	HGNC	UniProtAC
248610	DBT	P11182
248611	BCKDHB	P21953
608348	BCKDHA	P12694

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:0009083	3	21	7.27317e-09	branched-chain amino acid catabolic process
GO:0009081	3	34	3.27238e-08	branched-chain amino acid metabolic process
GO:0009063	3	173	4.63759e-06	cellular amino acid catabolic process
GO:0016054	3	278	1.93711e-05	organic acid catabolic process
GO:0046395	3	278	1.93711e-05	carboxylic acid catabolic process
GO:0044282	3	358	4.14689e-05	small molecule catabolic process
GO:0006520	3	839	0.000536354	cellular amino acid metabolic process
GO:0051591	2	153	0.00239349	response to cAMP
GO:1901565	3	1431	0.0026652	organonitrogen compound catabolic process
GO:0046683	2	188	0.00361598	response to organophosphorus
GO:0019752	3	1590	0.00365673	carboxylic acid metabolic process
GO:0043436	3	1732	0.00472729	oxoacid metabolic process
GO:0051384	2	215	0.00473011	response to glucocorticoid
GO:0006082	3	1753	0.00490142	organic acid metabolic process
GO:0031960	2	226	0.00522668	response to corticosteroid
GO:0014074	2	233	0.00555552	response to purine-containing compound
GO:0044712	3	2063	0.00799072	single-organism catabolic process
GO:0007584	2	307	0.00964207	response to nutrient
GO:0044248	3	2821	0.0204394	cellular catabolic process
GO:0031667	2	493	0.0248133	response to nutrient levels
GO:1901575	3	3074	0.026449	organic substance catabolic process
GO:1901564	3	3152	0.0285146	organonitrogen compound metabolic process
GO:0009991	2	532	0.0288787	response to extracellular stimulus
GO:0009056	3	3347	0.0341428	catabolic process
GO:0048545	2	646	0.0425089	response to steroid hormone

Table 2: Overrepresented GO terms with the standard enrichment

2 Network-based enrichment

No novel enriched terms