

#227220 SKIN/HAIR/EYE PIGMENTATION, VARIATION IN, 1; SHEP1

OMIM Gene ID	HGNC	UniProtAC
605837	HERC2	O95714
611409	OCA2	Q04671

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:0015828	1	1	0.00651777	tyrosine transport
GO:0006726	1	4	0.02607	eye pigment biosynthetic process
GO:0015801	1	4	0.02607	aromatic amino acid transport
GO:0042441	1	4	0.02607	eye pigment metabolic process
GO:0043324	1	4	0.02607	pigment metabolic process involved in developmental pigmentation
GO:0043474	1	4	0.02607	pigment metabolic process involved in pigmentation

Table 2: Overrepresented GO terms with the standard enrichment

2 Network-based enrichment

No novel enriched terms