

#133100 ERYTHROCYTOSIS, FAMILIAL, 1; ECT1

OMIM Gene ID	HGNC	UniProtAC
133171	EPOR	P19235
147796	JAK2	O60674
605093	SH2B3	Q9UQQ2

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:0035406	1	1	0.0329862	histone-tyrosine phosphorylation
GO:0035409	1	1	0.0329862	histone H3-Y41 phosphorylation

Table 2: Overrepresented GO terms with the standard enrichment

2 Network-based enrichment

GO Term	N1	N2	P-value	Description
GO:0036017	2	6	8.13284e-05	response to erythropoietin
GO:0036018	2	6	8.13284e-05	cellular response to erythropoietin
GO:0033033	2	31	0.00251992	negative regulation of myeloid cell apoptotic process

Table 3: Overrepresented terms with the network-based enrichment. Only terms not detected with the standard method.