

## SLC37 – Sugar-phosphate/phosphate exchanger family

Human gene name	Protein name	Aliases	Predominant substrates	Transport type / coupling ions <sup>*)</sup>	Tissue distribution and cellular / subcellular expression	Link to disease	Human gene locus	Sequence accession ID	Splice variants and their features
<a href="#">SLC37A1</a>	G3PP	FLJ22340	glycerol 3-phosphate	E / inorganic phosphate (?)	adult bone marrow, spleen, small intestine, kidney, liver and other tissues; fetal liver, brain and other tissues		21q22.3	<a href="#">NM_018964</a>	
<a href="#">SLC37A2</a>		pp11662, FLJ00171, MGC71430	glycerol 3-phosphate	unknown	EST from several tissues		11q24.2	<a href="#">NM_198277.2</a> <a href="#">NM_001145290</a>	
<a href="#">SLC37A3</a>		MGC32939	glycerol 3-phosphate	unknown	EST from several tissues, high level in breast and stomach		7q34	<a href="#">NM_032295</a> <a href="#">NM_207113</a>	
<a href="#">SLC37A4</a>	G6PT1	G6PT1, G6PT2, G6PT3, GSD1b, GSD1c, GSD1d, TRG19, PRO0685, MGC15729	glucose-6-phosphate	E / inorganic phosphate	strongly expressed in liver, kidney and hematopoietic progenitor cells	glycogen storage disease 1b and 1c	11q23.3	<a href="#">NM_001467.5</a>	exon 7 is present in the brain-specific isoform (also in skeletal muscle and heart)

\*) C: Cotransporter; E: Exchanger; F: Facilitated transporter; O: Orphan transporter

### References:

*Original version of the SLC table:*

[Bartoloni L, Antonarakis SE.](#) The human sugar-phosphate/phosphate exchanger family SLC37. *Pflugers Arch.* 2004 Feb;447(5):780-3.

Questions & Comments