

SLC51 – Transporters of steroid-derived molecules

Human gene name	Protein name	Aliases	Predominant substrates	Transport type / coupling ions ^{*)}	Tissue distribution and cellular / subcellular expression	Link to disease	Human gene locus	Sequence accession ID	Splice variants and their features
SLC51A1	OST-alpha		Glycine and taurine conjugated bile acid species	F	Epithelial basolateral membrane of intestine, kidney, liver, testis and adrenal gland		3q29	NM_152672	
SLC51A1BP	OST-beta		Glycine and taurine conjugated bile acid species	F	Epithelial basolateral membrane of intestine, kidney, liver, testis and adrenal gland		15q22.31	NM_178859	

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

References:
[Ballatori N, Christian WV, Lee JY, Dawson PA, Soroka CJ, Boyer JL, Madejczyk MS, Li N.](#) OSTalpha-OSTbeta: a major basolateral bile acid and steroid transporter in human intestinal, renal, and biliary epithelia. *Hepatology*. 2005 Dec;42(6):1270-9
[Soroka CJ, Xu S, Mennone A, Lam P, Boyer JL.](#) N-Glycosylation of the alpha subunit does not influence trafficking or functional activity of the human organic solute transporter alpha/beta. *BMC Cell Biology*. 2008 Oct 10;9:57

Questions & Comments