

SLC10 – Sodium bile salt cotransport family

Human gene name	Protein name	Aliases	Predominant substrates	Transporter type / coupling ions ^{*)}	Tissue distribution and cellular/ subcellular expression	Link to disease	Human gene locus	Sequence accession ID	Splice variants and their features
SLC10A1	NTCP	LBAT	bile acids	C / Na ⁺	liver (basolateral), pancreas		14q24.1	NM_003049	
SLC10A2	ASBT	IBAT, ISBT, NTCP2	bile acids	C / Na ⁺	ileum, kidney, biliary tract (apical)	(primary bile acid malabsorption)	13q33	NM_000452	
SLC10A3	P3			O	ubiquitous		Xq28	NM_019848 NM_001142392 NM_001142391	3 splice variants
SLC10A4	P4			O	brain (cholinergic neurons), placenta, liver		4p12	NM_152679	
SLC10A5	P5			O	liver, kidney		8q21.13	NM_001010893	
SLC10A6	SOAT	P6	estrone-3-sulfate, dehydroepiandrosterone sulfate, pregnenolone sulfate	C / Na ⁺	testis, placenta, pancreas		4q21.3	NM_197965	
SLC10A7	P7	C4orf13		O	liver, testis		4q31.22	NM_001029998 NM_032128	2 splice variants

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

References:

Original version of the SLC table:

[Hagenbuch B, Dawson P.](#) The sodium bile salt cotransport family SLC10. *Pflugers Arch.* 2004 Feb;447(5):566-70.

Questions & Comments