

SLC14 – Urea transporter family

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
SLC14A1	UT-B1	UT3, JK, Kidd, UT11	urea	F / -	kidney (vasa recta, papillary epithelia), erythrocytes, testes, brain, spleen	Kidd antigen blood group	18q11-q12	NM_015865	UT-B1b (alternated 3'UTR)
SLC14A2	UT-A1	UT1	urea	F / -	kidney (luminal membrane of inner medullary collecting duct, IMCD)	(orthostatic hypotension)	18q12.1-18q21.1	AF349446	UT-A1b (alternated 3'UTR)
	UT-A2	UT2	urea	F / -	kidney (descending thin limb of loop of Henle), liver, heart			NM_007163	UT-A2b (alternated 3'UTR)
	UT-A3 (rat), UT-A6 (human)	UT4	urea	F / -	kidney (luminal membrane of IMCD), colon			AF041788 (rat) AK074236 (human)	UT-A3b (alternated 3'UTR)

References:

Original version of the SLC table:

[Shayakul C, Hediger MA.](#) The SLC14 gene family of urea transporters. *Pflugers Arch.* 2004 Feb;447(5):603-9.

Questions & Comments