

SLC31 – Copper 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 |
|--------------------------|--------------|--------------------|--------------------------------|--|--|-----------------|------------------|-----------------------------|------------------------------------|
| SLC31A1 | hCtr1 | hCtr1, Ctr1, COPT1 | copper (I), cisplatin | energy independent / potassium dependent | ubiquitous mRNA expression, highest in liver, lowest in brain and skeletal muscle; protein localized to plasma membrane and intracellular vesicles of cultured cells | unknown | 9q31-q32 | NM_001859.3 | unknown |
| SLC31A1P | pseudogene | CTR1psi, CTR1P | | | | | 3q25-q26 | AF238997 | |
| SLC31A2 | hCtr2 | hCtr2, Ctr2, COPT2 | copper, cisplatin, carboplatin | unknown | ubiquitous mRNA expression / plasma membrane, late endosome, lysosome | unknown | 9q31-q32 | NM_001860.2 | unknown |

References:

Original version of the SLC table:

[Petris MJ](#). The SLC31 (Ctr) copper transporter family. *Pflugers Arch.* 2004 Feb;447(5):752-5.

Questions & Comments