

## SLC41 – MgtE-like magnesium transporter 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="#">SLC41A1</a>	MgtE		Mg <sup>2+</sup> (Sr <sup>2+</sup> , Zn <sup>2+</sup> , Cu <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ba <sup>2+</sup> , Cd <sup>2+</sup> )		kidney, heart, testis, skeletal muscle, prostate, adrenal gland, thyroid		1q32.1	<a href="#">NM_173854</a>	
<a href="#">SLC41A2</a>			Mg <sup>2+</sup> (Ba <sup>2+</sup> , Ni <sup>2+</sup> , Co <sup>2+</sup> , Fe <sup>2+</sup> , Mn <sup>2+</sup> )				12q23.3	<a href="#">NM_032148.3</a>	
<a href="#">SLC41A3</a>				O			3q21.2	<a href="#">NM_017836</a> <a href="#">NM_001008486</a> <a href="#">NM_001008485</a> <a href="#">NM_001008487</a>	4 splice variants

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

### References:

*Original version of the SLC table:*

[Hediger MA, Romero MF, Peng JB, Rolfs A, Takanaga H, Bruford EA.](#) The ABCs of solute carriers: physiological, pathological and therapeutic implications of human membrane transport proteins: Introduction. *Pflugers Arch.* 2004 Feb;447(5):465-8