

SLC8 – Na⁺/Ca²⁺ exchanger family

Human gene name	Protein name	Aliases	Predominant substrates	Transport type / coupling ions ^{*)}	Tissue distribution and cellular / subcellular expression	Human gene locus	Sequence accession ID	Splice variants and their features
SLC8A1	NCX1	NACA, NCE	Na ⁺ , Ca ²⁺	E / Na ⁺ , Ca ²⁺	ubiquitous tissue distribution, plasma membrane of various cell types, in brain mainly in neurons and their dendrites	2p23-p22	NM_021097.2	4 splice variants exon A splice variants in excitable tissues; exon B splice variants in all other tissues
SLC8A2	NCX2		Na ⁺ , Ca ²⁺	E / Na ⁺ , Ca ²⁺	predominantly in brain (glial cells) and skeletal muscle, low transcript levels in various other tissues	19q13.3	NM_015063	no splice variants found
SLC8A3	NCX3		Na ⁺ , Ca ²⁺	E / Na ⁺ , Ca ²⁺	exclusively in brain (subpopulations of neuronal cells) and skeletal muscle	14q24.1	NM_033262	5 splice variants exon A splice variants in skeletal muscle; exon B splice variants in skeletal muscle and brain

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

References:

Original version of the SLC table:

[Quednau BD](#), [Nicolli DA](#), [Philipson KD](#). The sodium/calcium exchanger family-SLC8. *Pflügers Arch.* 2004 Feb;447(5):543-8.

Questions & Comments