SLC30A4 cDNA Clone – Solute Carrier Family 30 (Zinc Transporter), Member 4 (Human)

PRODUCT OVERVIEW

Product Name	SLC30A4, cDNA Clone
Full Product Name	SLC30A4 cDNA Clone
Product Gene Name	SLC30A4 cdna clone
Sequence	atggccggct ctggcgcgtg gaagcgcctc aaatctatgc taaggaagga tgatgcgccg ctgtttttaa atgacaccag cgcctttgac ttctcggatg aggcggggga cgaggggctt tctcggttca acaaacttcg agttgtggtg gccgatgacg gttccgaagc cccggaaagg cctgttaacg gggcgcaccc gaccctccag gccgacgatg attccttact ggaccaagac ttacctttga ccaacagtca gctgagtttg aaggtggact cctgtgacaa ctgcagcaaa cagagagaga tactgaagca gagaaaggtg aaagccaggt tgaccattgc tgccgttctg tacttgcttt tcatgattgg agaacttgta ggtggataca ttgcaaatag cctagcaatc atgacagatg cacttcatat gttaactgac ctaagcgcca tcatactcac cctgcttgct ttgtggctat catcaaaatc accaaccaaa agattcacct ttggatttca tcgcttagag gttttgtcag ctatgattag tgtgctgttg gtgtatatac ttatgggatt cctcttatat gaagctgtgc aaagaactat ccatatgaac tatgaaataa atggagatat aatgctcatc accgcagctg ttggagttgc agttaatgta ataatggggt ttctgttgaa ccagtctggt caccgtcact cccattccca ctccctgcct tcaaattccc ctaccagagg ttctgggtgt gaacgtaacc atgggcagga tagcctggca gtgagagctg catttgtaca tgctttggga gatttggtac agagtgttgg tgtgctaata gctgcataca tcatacgatt caagccagaa tacaagattg ctgaccccat ctgtacatac gtattttcat tacttgtggc ttttacaaca tttcgaatca tatgggatac agtagttata atactagaag gtgtgccaag ccatttgaat gtagactata tcaaagaagc cttgatgaaa atagaagatg tatattcagt cgaagattta aatatctggt ctctcacttc aggaaaatct actgccatag ttcacataca gctaattcct ggaagttcat ctaaatggga ggaagtacag tccaaagcaa accatttatt attgaacaca tttggcatgt atagatgtac tattcagctt cagagttaca ggcaagaagt ggacagaact tgtgcaaatt gtcagagttc tagtccctaa
Molecular Weight	47,483 Da
OMIM	602095
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SLC30A4 cdna clone	MBS1278573 is a cDNA clone targeting SLC30A4.
Other Notes	Small volumes of SLC30A4 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC30A4. It may not necessarily be applicable to this product.

NCBI GI #	34190194
NCBI GeneID	7782
NCBI Accession #	BC026089
UniProt Secondary Accession #	Q8TC39
UniProt Related Accession #	O14863
NCBI Official Full Name	Homo sapiens solute carrier family 30 (zinc transporter), member 4, mRNA
NCBI Official Synonym Full Names	solute carrier family 30 member 4
NCBI Official Symbol	SLC30A4
NCBI Official Synonym Symbols	ZNT4; znT-4

UniProt Protein Name	Zinc transporter 4
UniProt Synonym Protein Names	Solute carrier family 30 member 4
Protein Family	Zinc transporter
UniProt Gene Name	SLC30A4
UniProt Synonym Gene Names	ZNT4; ZnT-4
UniProt Entry Name	ZNT4_HUMAN
NCBI Protein Information	zinc transporter 4
NCBI Summary for SLC30A4	Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases (e.g., MIM 114852), alkaline phosphatases (e.g., MIM 171760), various dehydrogenases, and superoxide dismutases (e.g., MIM 147450). SLC30A4, or ZNT4, belongs to the ZNT family of zinc transporters. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop (Huang and Gitschier, 1997 [PubMed 9354792]).[supplied by OMIM, Mar 2008]
UniProt Comments for SLC30A4	SLC30A4: Probably involved in zinc transport out of the cytoplasm, maybe by sequestration into an intracellular compartment. Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily. Protein type: Transporter; Membrane protein, multi-pass; Membrane protein, integral; Transporter, SLC family Chromosomal Location of Human Ortholog: 15q21.1|15q21.1 Cellular Component: cytoplasm; cytoplasmic membrane-bound vesicle; late endosome; membrane Molecular Function: zinc ion transmembrane transporter activity Biological Process: response to toxin; response to zinc ion
Research Articles on SLC30A4	**1.** TRPML1 works in concert with ZnT4 to regulate zinc translocation between the cytoplasm and lysosomes.
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