

Product datasheet for **SC112306**

SLC30A5 (NM_024055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	SLC30A5
Synonyms:	ZnT-5; ZNT5; ZNTL1; ZTL1
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_024055, the custom clone sequence may differ by one or more nucleotides

ATGGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCCTTGGGCCGTGGACG
TACCCAGCGCTCGATTAAACAAATATATTGTGTACTATGTTTCACTAAATTTTGAAGGCTGTGGGACT
TTTCGAATCATATGATCTCCTAAAAGCTGTTACATTGTTCAAGTTCAATTTTATATTTAACTTGGGACT
GCATTTTTTATGGTTTTGTTTCAAAAGCCATTTTCTTCTGGGAAAACATTACCAAACACCAGATAATTG
GATCACTAAAAATTCCTGGTAGAAAAGAATTTAAAGACAAAAGTTAAATGATCCTAGGAACTAGTGGG
AAACTGA



5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_024055 unedited</p> <pre> GAATACGACTCACTATAGGCGGCCGCGAATTCGGCACGAGGGTCCCTACCGCCGCTGCT TCCCGGGAACCTGGCGCCGCCGGAAGTATCGCGGCCTAGTCCCAGCGTGTGTGCTAG TGAGCCGGAGCCCGGCGACGGCGGCAGTGGCGGCCCGGCCTGCAGGAGCCGACGGGTCT CTGCCATGGGGAGTGACGCGCTGCACCCGCTGTTCCGCGGCAGCGGCAGACATGAGG AGACCCCGGACAGGGGAGCGGGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACG GCGGGGACGTGCTGGCCGGCCCGGCGGCGGCGGCTTGGCCGGTGGACGTACCCA GCGCTCGATTAACAAAATATATTGTGTTACTATGTTTCACTAAATTTTGAAGGCTGTGG GACTTTTCGAATCATATGATCTCCTAAAAGCTGTTACATTGTTCAAGTTCATTTTATAT TAAACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAGCCATTTTCTTCTGGGAAA CTATTACAAACACCAAGTGGATCAAATATTTAAACATGCAGTTGCTGGGTGTATTATT CACTCTTGTTGGTTTTTGGCCTCACTCTTTGTGGACCACTAAGGACTTTGCTGCTATTG AGCACAGTGATATTGTTGTCATTTCACTACTCAGTGTTTTGTTACCAAGTCTGGAGGAG GACCAGCAAAGACAGGGAGCTGCTTTTTTATTATTGCTGGGGATCTGTTATTGCTTNTT GACATGATGATCTCATGGCTAAATGGGCTGACACCTGNAGGACATCATGACCGTGCTCT ACTCATATGCTTAACAGCCATTGCCTTCTTAGGTGTGGCAGACACAGGGTGGAGTATAT TGCTAGTACTGCCTTTNGTGTGAAAGNTGGTTTTTCATACGCTC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_024055
Insert Size:	2950 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024055.2, NP_076960.1</u>
RefSeq Size:	1379 bp
RefSeq ORF:	357 bp
Locus ID:	64924

UniProt ID: Q8TAD4

Cytogenetics: 5q13.1-q13.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the SLC30A/ZnT family of zinc transporter proteins. ZnT proteins mediate both cellular zinc efflux and zinc sequestration into membrane-bound organelles. The encoded protein plays a role in the early secretory pathway as a heterodimer with zinc transporter 6, and may also regulate zinc sequestration into secretory granules of pancreatic beta cells. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 19. [provided by RefSeq, Oct 2011]

Transcript Variant: This variant (2) differs in the 3' UTR and lacks a large portion of the coding region, compared to variant 1. The encoded isoform (2) is significantly shorter and has a distinct C-terminus, compared to isoform 1.