

Product datasheet for **SC112396**

SLC30A5 (NM_022902) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC30A5 (NM_022902) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC30A5
Synonyms:	ZnT-5; ZNT5; ZNTL1; ZTL1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC112396 sequence for NM_022902 edited (data generated by NextGen Sequencing)

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ATGGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGGCGGGCGGCCTTGGG
CCGGTGGACGTACCCAGCGCTCGATTAAACAAATATATTGTGTTACTATGTTTCACTAAA
TTTTGAAGGCTGTGGGACTTTTCGAATCATATGATCTCCTAAAAGCTGTTACATTGTT
CAGTTCATTTTTATATTAACCTTGGGACTGCATTTTTATGGTTTTGTTTCAAAAGCCA
TTTTCTCTGGGAAACATTACCAACACCAAGTGGATCAAAATATTTAAACATGCAGTT
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ACTTTGCTGCTATTTGAGCACAGTGATATTGTTGTCATTTCACTACTCAGTGTGTTGTTT
ACCAGTTCTGGAGGAGGACCAGCAAGACAAGGGGAGCTGCTTTTTTTCATTATTGCTGTG
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GTGCTAGAACAAAGAATAGTACAGCAGGTTACAGGAATACTTAAAGATGCTGGAGTAAAC
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GGTACTTACATCATGTGA

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Clone variation with respect to NM_022902.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022902 unedited
 GTCGGGATTTGTAACCGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGGAGCCCCGG
 GATGGAGGAGAAATACGGCGGGGACGTGCTGGCCGGCCCCGGCGGCGGCGGCCTTGG
 GCCGGTGGACGTACCCAGCGCTCGATTAAACAAATATATTGTGTTACTATGTTTCACTAA
 ATTTTTGAAGGCTGTGGGACTTTTGAATCATATTATCTCCTAAAAGCTGTTACATTGT
 TCAGTTCATTTTATATTAACCTTGGGACTGCATTTTTATGGTTTTGTTTCAAAGCC
 ATTTTCTTCTGGGAAACTATTACCAACACCAAGTGGATCAAAATATTTAAACATGCAGT
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 GACTTTGCTGCTATTTGAGCACAGTGATATTGTTGTCATTTCACTACTCAGTGTGTTGTT
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 AGGACATCATGACAGTGTCTAACTCATATGCTTTACACAGCCATTGCCTTCTTAGGTGT
 GGCAGATCACAAGGTGGAGTATTATTGCTAGTACTGGCTTTGTGTTGAAAGTTGGTTT
 TCATACAGCTTCCAGAAAGCTCTCTGTCGACGTTGGTGGAGCTAAACGTCTCCAAGCTTT
 ATCTCATCTTGGTTCTGTGCTTCTCTTGTGCCCATGGGTATTGNNCTTCTGTGACAAC
 TGANAGTAAAGTGGAGTCTGTTTTCTCTCATATGCCTTTTGAACGGTATCTTTTTGT
 CATGATTCTGATTCTACGTGGATCCATTTTGTATCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022902 unedited
 CCGCGGCCGAATCTAGAGTCGAGTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAC
 CAAAAGTAAAAAAATTTATTTTATAGAGGGTTGATTTTTGTAATACATCAAAACTGG
 GATGTTATACACTTCCCTATTCTCATTGCTTATCTCATATCAGGGGTTGAAGTTTCTCCC
 AAATAATTTAGTTTACATTTAAAGGGCAATACAGATTTTACTTAATGGACTTAAGTTAT
 AATTAGAAACCAGTTTTATTTACAGAAAATCCATAAATATAGAACTTTTATTCCTATTTT
 ATCTTTAGGCTATGCAAAAAATGGACTAAAAATTTTCATTTGGGTCTTTGTAATAAACA
 TGTAATACATATTTACAATGGAGATGCTTCTGATAGAAAGTAAACAGAAGTAATTTTG
 GTCTTCACTAGAATCCATCATATCTATTTTTGAAGATGATGTAATACATCATGTTTACTC
 AAAATTTGATTCCTTTTATACACATAATTTAAATAATTACTCCACTTTTACCATTAAATGT
 TTCATTCTGTATTTAAATTTCTTCAAGAAAGATTCTTGATCCAGTAGTAGGGAACCTCT
 GTTTCTGTACAGTTAATGTGTAATTTTTATCCTTCTGGCATATTACAAATACTGAGTCAT
 TTAATCTTCATTGGTTATTCTCCAGGGGATTTCTGAGTTATCTCACATGATGTAAGGAC
 CATCTTTGCAGGATTTTATGAATTCCATTNGTTTTGCCACTACCACGACATCTTGAAATC
 CAGTCCTCAGGCCAGACATATGTTGAAAGTATGCCTCCTTTTCCCTTGAATAGGTAAA
 TTGGTTACCTCCACCATCTTAAGGAATCTCCTGGACCCGCGCTTTNCTTGGTCTTAC
 CCATNAGAGTCACCTGTTATTGGATTGGCCCTGCCCCATACTTACAAAAGACCCCAAAA
 GAGGGCCCGGGAGAAAAAACCCCTCATTTCTGATCTTTTAAGAAAAGGAGNTTTTAAAT
 TTTGGCGTTCCAAGATAACCGGNN

Restriction Sites:

NotI-NotI

ACCN:

NM_022902

Insert Size:

3000 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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:	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.
RefSeq:	NM_022902.2 , NP_075053.2
RefSeq Size:	2952 bp
RefSeq ORF:	2298 bp
Locus ID:	64924
UniProt ID:	Q8TAD4
Cytogenetics:	5q13.1-q13.2
Domains:	Cation_efflux
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 (1) represents the longest transcript and encodes the longest isoform (1).