

Product datasheet for **SC325282**

SLC39A12 (NM_001145195) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A12 (NM_001145195) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC39A12
Synonyms:	bA570F3.1; LZT-Hs8; ZIP-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001145195, the custom clone sequence may differ by one or more nucleotides

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ATGTGCTTCCGGACAAAGCTCTCAGTATCCTGGGTGCCATTGTTTCTTCTACTCAGCCGTGTTTTTCTA
CTGAGACAGACAAACCCTCAGCCAGGATAGCAGAAGCCGTGGGAGTTCAGGCCAACCCGGCAGACCTGCT
ACAGGTTCTCTGCTGGTGACCACCCACCCACAACCACTCAAGAAGCCTCATCAAACATTGTTGGAG
AAAAGTGGGTGCCACGGAGGAGAAACGGAATGCAAGGAGATTGCAATCTGTGCTTTGAACCAGATTGCAC
TATTACTAATAGCTGGAGGAAATTTTGAAGATCAGCTTAGAGAAGAAGTGGTCCAGAGAGTTTCTTCTT
CCTTCTCTATTACATTATTCATCAGGAAGAGATCTGTTCTTCAAAGCTCAACATGAGTAATAAAGAGTAT
AAATTTTACCTACACAGCCTACTGAGCCTCAGGCAGGATGAAGATTCTCTTTTCCACAGAATGAGA
CAGAAGATATCTGGCTTTCACCAGGCAGTACTTTGACACTTCTCAAAGCCAGTGTATGGAACCAAAAC
GCTGCAGAAAAAATCTGGAATAGTGAGCAGTGAAGGTGCTAATGAAAGTACGCTTCTCAGTTGGCAGCC
ATGATCATTACTTTGTCCTCCAGGGTGTGTTGCTGGGACAAGGAAACTTGCCTTCCCAGACTACTTTA
CAGAATATATTTTCAAGTTCCTTGAATCGTACGAATACCCTCCGCCTATCAGAAGTACCAACTCCTCAA
CACTCTCTGGACCAGAAGTACTGTATCAAAAATGAGAAAATCCATCAATTTCAAAGGAAACAAAACAAC
ATAATAACCCATGATCAGGACTATTCTAATTTCTCTTATCCATGGAAAAAGAGTCTGAGGATGGTCCAG
TTTCTGGGATCAGACCTGCTTCTGCTAGGCAGCTGGTGGAGATTTTCTACAGAAGGGCCTCTCACT
CATTTCTAAGGAGGACTTTAAGCAAATGAGTCCAGGGATCATCCAGCAGCTCCTCAGCTGCTCCTGCCAC
TTACCCAAGGACCAACAAGCAAAGCTGCCACCTACCACTCTGGAGAAAATACGGCTACAGCACGGTGGCTG
TCACCTTCTCACACTGGGCTCCATGCTGGGGACAGCGCTGGTCTTTTCCATAGCTGTGAGGAGAACTA
CAGGCTTATCTTACAGCTGTTTGTGGCTTGGCCGTGGGACACTGTCTGGGACGCTCTGCTCCACCTT
ATCCCTCAGGTTCTTGGTTTACATAAGCAGGAAGCCCCAGAATTTGGGCATTTCCATGAAAGCAAAGGTC
ATATTTGGAAACTGATGGGATTAATTGGAGGCATCCATGGATTTTCTTGATAGAAAAATGTTTTATTCT
TCTTGATCACCAAAATGACAAGCAGGGCCTGTCATTGGTTAATGGGCACGTGGGTCAATCCACCATCTT
GCACTCAACTCTGAATTAAGTGACCAGGCAGGCAGAGGCAAATCTGCTTCAACTATCCAGTTGAAAAGCC
CAGAAGATTCACAGGCAGCTGAAATGCCTATAGGCAGTATGACAGCCTCCAACAGAAAAATGTAAGCCAT
TAGCTTGTAGCAATCATGATTCTGGTTGGGGACAGCCTGCATAATTTGCAGATGGCCTAGCCATAGGA
GCAGCCTTCTCATCATCCGAGTCAGGAGTGACCACTACGATTGCTATCTTGTGTCATGAAATCCCAC
ATGAAATGGGAGACTTTGCCGTGCTCTAAGCTCTGGACTTTCTATGAAGACTGCCATCCTGATGAATTT
TATAAGCTCCCTAACTGCCTTCATGGGATTATACATTGGCCTTTCCGTGTCAGCTGATCCATGTGTTCAA
GACTGGATCTTACAGTCACTGCTGGGATGTTCTTATATTTATCCTTGGTTGAAATGCTTCTGAAATGA
CTCATGTTCAAACACAACGACCCTGGATGATGTTTCTCCTGCAAAAATTTGGATTGATCCTAGGTTGGCT
TTCTCTCTGCTCTTGGCTATATATGAGCAAAATATTAATAATAA
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Restriction Sites: Please inquire

ACCN: NM_001145195

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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001145195.1](#), [NP_001138667.1](#)

RefSeq Size: 2808 bp

RefSeq ORF: 2076 bp

Locus ID: 221074

UniProt ID: [Q504Y0](#)

Cytogenetics: 10p12.33

Protein Families: Transmembrane

Gene Summary: Zinc is an essential cofactor for hundreds of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. SLC39A12 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).[supplied by OMIM, Aug 2008]
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).