

Product datasheet for **SC323103**

SLC39A14 (NM_001128431) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC39A14 (NM_001128431) Human Untagged Clone
Tag: Tag Free
Symbol: SLC39A14
Synonyms: cig19; HCIN; HMNDYT2; LZT-Hs4; NET34; ZIP14
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001128431 edited
GGTCGGCGCGCGTGTCTACGCGGACGCACCGGCTAAGCTGCTTCTGCCGCCGCCGGCCG
CTGGGACCTTGCAGTGCAGGCTGCGCGGGGCCGAGGCCCTCCGAGCGCCAGGTTTATTC
AGTCACCATGAAGCTGCTGCTGCTGCACCCGGCCTTCCAGAGCTGCCTCCTGCTGACCC
GCTTGGCTTATGGAGAACCACCCCTGAGGCTCACGCTTCATCCCTGGGTGCACACGCTAT
CAGCGCTGCCTCCTTCTGCAGGATCTAATACATCGGTATGGCGAGGGTGACAGCCTCAC
TCTGCAGCAGCTGAAGGCCCTACTCAACCACCTGGATGTGGGAGTGGGCCGGGTAATGT
CACCCAGCAGTGAAGGACACAGGAACCTCTCCACGTGCTTTAGTTCTGGAGACCTCTT
CACTGCCACAATTTAGCGAGCAGTCGCGGATTGGGAGCAGCGAGCTCCAGGATTCTG
CCCCACCATCCTCCAGCAGCTGGATTCCCGGGCCTGCACCTCGGAGAACCAGGAAAACGA
GGAGAATGAGCAGACGGAGGAGGGCGGCAAGCGCTGTTGAAGTGTGGGATACGGTCT
CCTCTGTGTGACCGTCATCTCCCTCTGCTCCCTCCTGGGGCCAGCGTGGTGCCCTTCAT
GAAGAAGACCTTTTACAAGAGGCTGCTGCTCTACTTCATAGCTCTGGCGATTGGAACCT
CTACTCCAACGCCCTCTTCCAGCTCATCCCGGAGGCATTTGGTTTCAACCCTCTGGAAGA
TTATTATGTCTCCAAGTCTGCAGTGGTGTGGGGGCTTTTATCTTTTCTTTTTCACAGA
GAAGATCTTGAAGATTCTTAAAGCAGAAAAATGAGCATCATCATGGACACAGCCATTA
TGCCTCTGAGTCGCTTCCCTCCAAGAAGGACCAGGAGGAGGGGTGATGGAGAAGCTGCA
GAACGGGGACCTGGACCACATGATTCTCAGCACTGCAGCAGTGCAGTGGACGGCAAGGC
GCCATGGTGGACGAGAAGGTCATTGTGGGCTCGCTCTCTGTGCAGGACCTGCAGGCTTC
CCAGAGTGTGCTACTGGCTGAAAGGTGTCGCTACTCTGATATCGGCACTCTGGCCTG
GATGATCACTCTGAGCGACGGCCTCCATAATTTTCATCGATGGCCTGGCCATCGGTGCTTC
CTTCACTGTGTCAGTTTTCCAAGGCATCAGCACCTCGGTGGCCATCCTCTGTGAGGAGTT
CCCACCTGAGCTAGGAGACTTTGTATCCTGCTCAACGCTGGGATGAGCATCCAACAAGC
TCTCTTCAACTTCTTTCTGCCTGCTGCTACCTGGGTCTGGCCTTTGGCATCCT
GGCCGGCAGCCACTTCTGCAACTGGATTTTTGCGCTAGCTGGAGGAATGTTCTTGTA
TATTTCTGGCTGATATGTTCCCTGAGATGAATGAGGTCTGTCAAGAGGATGAAAGGAA
GGCAGCATCTTGATTCCATTTATCATCCAGAACCTGGGCTCCTGACTGGATTCACCAT



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CATGGTGGTCTCACCATGTATTCAAGACAGATCCAGATTGGGTAGGGCTCTGCCAAGAG
 CCTGTGGGACTGGAAGTCGGGCCCTGGGCTGCCGATCGCCAGCCGAGGACTTACCATC
 CACAATGCACCACGGAAGAGGCCGTTCTATGAAAACTGACACAGACTGTATTCTGCAT
 TCAAATGTCAGCCGTTTGTAAAAAGTGTATCCTAGGAATAAGCTGCCCTGGTAACCAGT
 CTCTAGCTAGTGCCTCTTGCCCTCTCCTCACCTCTTTTCTCAGTGACTCTGGAACCT
 GAATGCAGCTTACAAGACAAGCCTGACTTTTTTCTCTGATTACCTTGGCCTCCTCTTGA
 ACCAGTGTGAAAAGTTTTGAATCCTTTACCAACAATGCAAAAAATAGAGCCAATGGTTA
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 GCACCTTGGACCTCCAGCTGGCCAATAGAAGAGACAGGAGACAGGAAGCCTTCCCATTTT
 TTCAAAGTCTGTTTAATTGCCTATTACTTCTCTCAAAGAGAACCTGAAGTCAGAACACAT
 GAGCAGGGTGAGAGGTGAGGCAAGGTTTCTCTGAATGGGAGAGGAAGTCGAACCACTGC
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 CAGCACCTGGTGTTCACGGCTGTCGAGTGAGCTAACGTGGCGGTGGCTGCCTGGAC
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 TCCTGCATTGAATTGAATATGAATTTCTCTAACTCTCTCCAGAAAATGGATGGAGATAAC
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 TAATGTGAGATTCTTTAGCCACTTTGGGGAGCCTGTCTCTCCAGAAGCCTTTCTAGTGG
 TGCCACAGTTGGAGCCAGGGCCATGTTTGCAAAGTATTGATGTCATGGCTGACAG
 GAGTACTGGTTCCTACCAATGCCTGAGCTTTTCTTACATAGAAAACTGTCCGCTCT
 CAGTAATCACAAGCAGCATCCGTTTTGTTTTCTTCTTGGGAGACATCTGTCAAACCAG
 GAATATCTTGAAGAAGCAGTGCAGGAAAACTGCTGGTGATACTTTTTTAAAGTTTT
 GTTTTTATCTTGCCTGTTGGCTTCAATACATTTGAGAATACGCTGAAGAGGGAAAAATTC
 AGTGATGGAGATTCTAGATTAATATCAGGACTGATTTCTGGTGGGATTATGGTCCAGT
 TTTATCAAAGAACCAATTCCTTGAATGTTGGAATCTAACTTTTTATATTGCATTATTAT
 TGTGTTTTTAAACGGTCTTTGTCTTTTCTGTTTTATTTTTCTCAAGCTGCTTTCAGGA
 GCTAGCAGAAAAAATACTCAAAGTTGAAGACTCTGGAAGATTTTGCTTTAACCTAACTCGC
 ATTGATGTATTAATTTAATTTTAGCATTCCCAATAGATCCTATCATTCTTAAACAT
 AATACCTTTGTCTTGGAGTAGAATACTAAGTTAGAGTTAGTGGATTTCTAGTTTAGGAG
 AGGAGCTCAAACTATAATCTTTAACAAATTGAAAAATGAAATAGGGTGTTCCTTTT
 TGTGCACACCTATATTACCTTAAGAAAATTCCTTCCATAGACAGCTGCCTCAAAGGGAAA
 TCCTCTTTAAACCGTAGTTGGCGCAGAGGTCAGTCTAGTCGGAGCTTAGGAGGGGGGA
 GACGCTCACATCGTCTGACTTGAGTCGCCACTGATTGTGGCAACAGCTTTGCCTCATGAG
 TCAAAAATTGGCAATTTCTTTGATTTTGTGTTGAATTTGCTGTTTCAAGCATTGT
 ACATATTAGAAGTCTAAGGAGTAGCAAGTCAAGTGGGAGGACTTTTTACCCTGGCATT
 GCAGCTTCGACCTCATTTTCCAGATGCACCAGCTCCTATTAATAAGTTAGCAAGGAAAGT
 GTATGTCACGTGCAGGAACAGTGGGACAGGACAGGGTTCTGCTCCTTCACTTACC
 ACCGGCACACAGCTTGCCCTGTCTTTGCCCCAAAGGATTTTGTGCTAGTGCAAAAT
 TGGAGCTATTCTCACTGGTCTTAACCTTGGGTTTTAAAAGAAGGCTTCTCTGTTTGG
 GTAGCGTAAGAGCTGAGTATAGTAAGTCCTCTTCAAAGAGATGGCAATATGCTGGGCAT
 CTACTTTAAAACAAAGTTGTCTGATTTTGAAGAGAGGTTAGGATTTTATTGTTCTTAT
 TTCCCTTTACAGTTCTGCAGTTCATCACAGTATTTTTTAAATAACTCAGGTGTATGAG
 AAGAAATTAGAAAAGAAAATTAACCTTATGTGGACTGTAATGTTTTATTGTAAGATTCT
 ATAAATAAAGCTATATTCTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	NotI-NotI
ACCN:	NM_001128431
Insert Size:	4699 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001128431.1.
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.
RefSeq:	<u>NM_001128431.1</u> , <u>NP_001121903.1</u>
RefSeq Size:	4699 bp
RefSeq ORF:	1479 bp
Locus ID:	23516
UniProt ID:	<u>Q15043</u>
Cytogenetics:	8p21.3
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a member of the the SLC39A family of divalent metal transporters that mediates the cellular uptake of manganese, zinc, iron, and cadmium. The encoded protein contains eight transmembrane domains, a histidine-rich motif, and a metalloprotease motif, and is expressed on the plasma membrane and the endocytic vesicle membrane. It is an important transporter of nontransferrin-bound iron and a critical regulator of manganese homeostasis. Naturally occurring mutations in this gene are associated with neurodegeneration with brain iron accumulation and early-onset parkinsonism-dystonia with hypermanganesemia. [provided by RefSeq, May 2017]

Transcript Variant: This variant (1) encodes isoform a. Variants 1 and 3 encode the same protein.