

Product datasheet for **SC304299**

SLC39A14 (NM_015359) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC39A14 (NM_015359) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC39A14
Synonyms:	cig19; HCIN; HMNDYT2; LZT-Hs4; NET34; ZIP14
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015359, the custom clone sequence may differ by one or more nucleotides ATGAAGCTGCTGCTGCTGCACCCGGCCTTCCAGAGCTGCCTCCTGCTGACCCCTGCTTGGC TTATGGAGAACCACCCCTGAGGCTCACGCTTCATCCCTGGGTGCACCAGCTATCAGCGCT GCCTCCTTCTGCAGGATCTAATACATCGGTATGGCGAGGGTGACAGCCTCACTCTGCAG CAGCTGAAGGCCCTACTCAACCACCTGGATGTGGGAGTGGGCCGGGGTAATGTCACCCAG CACGTGCAAGGACACAGGAACCTCTCCACGTGCTTTAGTTCTGGAGACCTTTCCTACTGCC CACAATTTTCAGCGAGCAGTCGCGGATTGGGAGCAGCGAGCTCCAGGAGTTCTGCCACC ATCCTCCAGCAGCTGGATTCCCAGGCTGCACCTCGGAGAACAGGAAAACGAGGAGAAT GAGCAGACGGAGGAGGGCGGCCAAGCGCTGTTGAAGTGTGGGGCTTTGGTTTTCTCAGT GTCTCACTGATTAACCTGGCCTCTCTCCTGGGAGTCCCTCGTCCCTGCCCTGCACAGAGAAA GCGTTTTTCAGCCGTGTGCTCACTTACTTCATCGCCCTGTCCATTGGAACGCTGTGTCT AACGCGCTATTCAGCTCATCCAGAGGCATTTGGTTTTCAACCCTCTGGAAGATTATTAT GTCTCCAAGTCTGCAGTGGTGTGGGGCTTTTATCTTTTCTTTTTCACAGAGAAGATC TTGAAGATTCTTCTTAAGCAGAAAAATGAGCATCATCATGGACACAGCCATTATGCCTCT GAGTCGCTTCCCTCCAAGAAGGACCAGGAGGAGGGGTGATGGAGAAGCTGCAGAACGGG GACCTGGACCACATGATTCCTCAGCACTGCAGCAGTGAAGTGGACGGCAAGGCGCCCATG GTGGACGAGAAGTCAATTGTGGGCTCGCTCTCTGTGCAGGACCTGCAGGCTTCCCAGAGT GCTTGCTACTGGCTGAAAGGTGTCGCTACTCTGATATCGGCACTCTGGCCTGGATGATC ACTCTGAGCGACGGCCTCCATAATTTTCATCGATGGCCTGGCCATCGGTGCTTCTTCACT GTGTCAAGTTTTCAAGGCATCAGCACCTCGGTGGCCATCCTCTGTGAGGAGTTCCCACAT GAGCTAGGAGACTTTGTCATCCTGCTCAACGCTGGGATGAGCATCCAACAAGCTCTTTC TTCAACTTCTTTCTGCCTGCTGCTACCTGGGTCTGGCCTTTGGCATCCTGGCCGGC AGCCACTTCTCTGCCAAGTGGATTTTTCGCTAGCTGGAGGAATGTTCTTGTATATTCT CTGGCTGATATGTTCCCTGAGATGAATGAGGTCTGTCAAGAGGATGAAAGGAAGGGCAGC ATCTTGATTCCATTTATCATCCAGAACCTGGGCCCTCTGACTGGATTACCATCATGGT GTCTCACCATGTATTCAGGACAGATCCAGATTGGGTAG
Restriction Sites:	Please inquire
ACCN:	NM_015359



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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).
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:	<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_015359.1</u> , <u>NP_056174.1</u>
RefSeq Size:	4627 bp
RefSeq ORF:	1479 bp
Locus ID:	23516
UniProt ID:	<u>Q15043</u>
Cytogenetics:	8p21.3
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate in-frame coding exon compared to variant 1, resulting in an isoform (b) of the same length, however, with several aa differences in the mid region compared to isoform a.</p>