

Product datasheet for **SC108179**

SLC25A28 (NM_031212) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A28 (NM_031212) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A28
Synonyms:	MFRN2; MRS3/4; MRS4L; NPD016
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_031212, the custom clone sequence may differ by one or more nucleotides

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ATGGAGTTGGAGGGGCGGGGTGCTGGCGGTGTGGCGGGGGGCCGGCGGCAGGGCCGGGCGGAGCCCCG
GGGAGTCGGCGCTGCTGGACGGGTGGCTGCAGCGGGCGTGGGCCGGGGGGCCGGCGCGGGGAGGCCGG
GGCCTGCAGGCCCGGTACGACAAGATCCGGACTCCGGCCCGGACTACGAGGCGCTGCCGGCTGGAGCC
ACTGTCACCACGCACATGGTGGCAGGCGCGTGGCAGGGATCCTGGAGCACTGCGTGATGTACCCCATCG
ACTGCGTCAAGACCCGGATGCAGAGTCTACAGCCTGACCCAGCTGCCCGCTATCGCAATGTGTTGGAGGC
CCTCTGGAGGATTATAAGAACGGAGGGCCTATGGAGGCCATGAGGGGGCTGAACGTACAGCAACAGGC
GCAGGGCCTGCCACGCCCTTTATTTGCCTGCTACGAAAAGTTAAAAAAGACATTGAGTGATGTAATCC
ACCCTGGGGCAATAGCCATATTGCCAATGGTGCAGCGGGGTGTGTGGCAACATTACTTCATGATGCAGC
CATGAACCCTGCGGAAGTGGTCAAGCAGAGGATGCAGATGTACAACCTACCATAACCACGGGTGACAGAC
TGTGTACGGGCAGTGTGGCAAAATGAAGGGGCCGGGGCCTTTTACCGCAGCTACACCACCCAGCTGACCA
TGAACGTTCCTTTCCAAGCCATTCACCTCATGACCTATGAATTCCTGCAGGAGCACTTTAACCCCAAG
ACGGTACAACCAAGCTCCCACGTCCTCTCTGGAGCTTGCAGGAGCTGTAGCTGCCGACGCCACAACC
CCACTGGACGTTTGCAAAACACTGCTCAACACCCAGGAGTCCCTTGCTTTGAACTCACACATTACAGGAC
ATATCACAGGCATGGCTAGTGCTTTCAGGACGGTATATCAAGTAGTGGGGTGACCGCCTATTTCCGAGG
GGTGCAGGCCAGAGTAATTTACCAGATCCCCTCCACAGCCATCGCATGGTCTGTGTATGAGTTCTTCAA
TACCTAATCACTAAAAGGCAAGAAGAGTGGAGGGCTGGCAAGTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_031212 unedited GCACGAGGGCAGGCCCCCGGTACGACAAGATCCGGACTCCGGCCCGGACTACGAGGCGCT GCCGGCTGGAGCCACTGTACCACGCACATGGTGGCAGGCGCCGTGGCAGGGATCCTGGA GCACTGCGTGATGATCCCATCGACTGCGTCAAGACCCGGATGCAGAGTCTACAGCCTGA CCCAGCTGCCCGCTATCGCAATGTGTTGGAGGCCCTCTGGAGGATTATAAGAACGGAGGG CCTATGGAGGCCCATGAGGGGGCTGAACGTCACAGCAACAGGCGCAGGGCCTGCCACGC CCTTTATTTTGCCTGCTACGAAAAGTTAAAAAGACATTGAGTGATGTAATCCACCCTGG GGCAATAGCCATATTGCCAATGGTGCGGCCGGTGTGTGGCAACATTACTTCATGATGC AGCCATGAACCCTGCGGAAGTGGTCAAGCAGAGGATGCAGATGTACAACCTACCATACCA CCGGGTGACAGACTGTGTACGGGCAAGTGTGCAAAATGAAGGGGCCGGGGCCTTTTACCGC AGCTACACCACCCAGCTGACCATGAACGTTCTTTCCAAGCCATTCACTTCATGACCTAT GAATTCC
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_031212 unedited TTGGACCGCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAATTTAAAGGCT TTTTATTAGGAACCAGGGGAATGAGCTGCTTATCCCTCTATAACAGTCTAGAGCAGGTCA TCAGGCCCAGGATGGAGAGAGTTATCAAAGGTGCTGTGGTGTGCTTTGCTGCACGTGCT TAGGGCCTGGAAGGAAAGGTGGTGGCAACAGAGTTGGCAGAACTGGTGTAGTCAAAA CACCAAAATCCTGGGGGAGAGCCCTCTACCTTCTTCTAACTCCACTTGAGGTGGGAGC ATTCCAGGAGACAGAGAATGTGACCAGGATGCAGCAGTGTCTGTAACCCCTGGCTTCG TTCAGTGTACTTCACTTGCCAGCCCTCCACTCTTCTTGCCTTTTAGTGATTAGGTATTT GAAGAACTCATAACAGACCATGCGATGGCTGTGGAGGGGATCTGGTAAATTAAGTCTGGC CTGCACCCCTCGAAATAGGCGGTACCCACCTACTTGATATACCGTCTGAAGGCACT AGCCATGCCTGTGATATGCTCTGTAATGTGTGAGTTCAAAGCCAAGGACTCCTGNGTGTT GAGCAGTGTGTTTCAAAACGTCCAGTGGGGTTGTGGCTGCGGCAGCTACAGCTCCTGCGCA AGCTCCAGAGAGGACGTGGGAGCTTGGGTTGTACCGTCTCTGGGGGTTAAAGTGCTCCTG CANGAATTCATAGGTCATGAAGTGAATGGCTTGGAAAGAACGTNCAATGGNTCAGCTGGTG GTGTANCTGCNGTAAAGGCCCGCCCTTATTTTGCACACTGCCCGNCACAGTCTGTAC CCGGTGTATGGTGTGAGTNGACATGTCATCCTCTGCTTGACCCTTTCGCAGGNTCATGGC TGCTCATGAAATATGT
Restriction Sites:	NotI-NotI
ACCN:	NM_031212
Insert Size:	1500 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.

RefSeq: [NM_031212.2](#), [NP_112489.2](#)

RefSeq Size: 1584 bp

RefSeq ORF: 1584 bp

Locus ID: 81894

UniProt ID: [Q96A46](#)

Cytogenetics: 10q24.2

Domains: mito_carr

Gene Summary: Mitochondrial iron transporter that mediates iron uptake. Probably required for heme synthesis of hemoproteins and Fe-S cluster assembly in non-erythroid cells. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoporphyrin IX to make heme (By similarity).[UniProtKB/Swiss-Prot Function]