

Product datasheet for **SC328928**

DMT1 (SLC11A2) (NM_001174127) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMT1 (SLC11A2) (NM_001174127) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC11A2
Synonyms:	AHMIO1; DCT1; DMT1; NRAMP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001174127, the custom clone sequence may differ by one or more nucleotides

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ATGGTGCCTGGGTCCTGAACAGAAGATGTCAGATGACAGTGTCTGGAGATCATGGGGAG
TCTGCCAGTCTTGGTAACATCAACCCTGCCTATAGTAATCCCTCTCTTTACAGTCCCCT
GGGGACTCAGAGGAGTACTTCGCCACTTACTTTAATGAGAAGATCTCCATTCTGAGGAG
GAGTACTCTTGTCTTAGCTTTTCGTAACACTCTGGGCTTTCCACGGACCAGGTTTTCTTATG
AGCATTGCCTACCTGGATCCAGGAAATATTGAATCCGATTTGCAGTCTGGAGCAGTGGCT
GGATTTAAGTTGCTCTGGATCCTTCTGTTGGCCACCCTTGTGGGCTGCTGCTCCAGCGG
CTTGACAGCTAGACTGGGAGTGGTACTGGGCTGCATCTTCTGTAAGTATGTCACCCTCAG
TATCCCAAGTCCACAGTATCCTGTGGCTGATGGTGGAGTTGGCTATCATCGGCTCA
GACATGCAAGAAGTATTGGCTCAGCCATTGCTATCAATCTTCTGTCTGTAGGAAGAATT
CCTCTGTGGGTTGGCTTCTCATCACCATTGCAGATACTTTTGTATTTCTTCTTGGAC
AAATATGGCTTGGGAAGCTAGAAGCATTTTTTGGCTTCTCATCACTATTATGGCCCTC
ACATTTGGATATGAGTATGTTACAGTCAAACCCAGCCAGCCAGGACTCAAGGGCATG
TTCGTACCATCCTGTTCCAGGCTGTCGCACTCCACAGATTGAACAGGCTGTGGGCATCGTG
GGAGCTGTCATCATGCCACACAACATGTACCTGCATTCTGCCTTGTCAAGTCTAGACAG
GTAACCCGGAACAATAAGCAGGAAGTTCGAGAAGCCAATAAGTACTTTTTTATTGAATCC
TGCATTGCACTCTTTGTTTCTTTCATCATCAATGTCTTTGTTGTCTCAGTCTTTGCTGAA
GCATTTTTTGGGAAAACCAACGAGCAGGTGGTTGAAGTCTGTACAATAACCAGCAGTCTCT
CATGCTGGCCTCTTTCTAAAGATAACTCGACTGGCTGTGGACATCTACAAAGGGGT
GTTGTGCTGGGATGTTACTTTGGCCTGCTGCACTCTACATTTGGGCAGTGGGGATCCTG
GCTGCAGGACAGAGCTCCACCATGACAGGAACCTATTCTGGCCAGTTTGTATGGAGGGA
TTCTGAACTAAAGTGGTCACGCTTTGCCCGAGTGGTTCTGACTCGCTTATTGCCATC
ATCCCCACTCTGCTTGTGCTGTCTTCCAAGATGTAGAGCATCTAACAGGGATGAATGAC
TTTCTGAATGTTTACAGAGCTTACAGCTTCCCTTTGCTCTCATACCCATCCTCACATTT
ACGAGCTTGCAGCCAGTAATGAGTGACTTTGCCAATGGACTAGGCTGGCGGATTGCAGGA
GGAATCTTGGTCTTATCATCTGTTCCATCAATATGACTTTGTAGTGGTTTATGTCCGG
GACCTAGGGCATGTGGCATTATATGTGGTGGCTGCTGTGGTCAGCGTGGCTTATCTGGGC
TTTGTGTTCTACTTGGGTTGGCAATGTTTGATTGCACTGGGCATGTCCTTCTGGACTGT
GGGCATACGTGCCATCTGGGATTGACAGCTCAGCCTGAACTCTATCTTCTGAACACCATG
GACGCTGACTCACTTGTGCTAGATGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001174127
- 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:

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_001174127.1](#), [NP_001167598.1](#)

RefSeq Size: 3790 bp

RefSeq ORF: 1707 bp

Locus ID: 4891

UniProt ID: [P49281](#)

Cytogenetics: 12q13.12

Protein Families: Transmembrane

Protein Pathways: Lysosome

Gene Summary: This gene encodes a member of the solute carrier family 11 protein family. The product of this gene transports divalent metals and is involved in iron absorption. Mutations in this gene are associated with hypochromic microcytic anemia with iron overload. A related solute carrier family 11 protein gene is located on chromosome 2. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Apr 2010] Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, and in the 3' UTR and coding region compared to variant 1. The resulting protein (isoform 2) has a shorter N-terminus and a distinct C-terminus compared to isoform 1. Isoform 2 lacks the iron responsive element (IRE) found in isoform 1. Both variants 2 and 3 encode isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.