

## Product datasheet for **SC319191**

### Mitochondrial dicarboxylate carrier (SLC25A10) (NM\_012140) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mitochondrial dicarboxylate carrier (SLC25A10) (NM_012140) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mitochondrial dicarboxylate carrier
Synonyms:	DIC; MTDPS19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_012140.3  
 CGGGGCGCGGGCGCTGCGGCCGGTACACGCCGGGTAGGGCCGGGGTCGGGTTGTGGTC  
 GGGCCGGGATTGGGCTCTCTGGGCCATGGCAGCCGAGGCGCGCTGTCGCGCTGGTACT  
 TCGGGGGGCTGGCCTCTGCGGGGCCCTGCTGCACGCACCCGCTGGACCTGCTCAAGG  
 TGCATCTGCAGACGCAGCAGGAGGTGAAGCTGCGCATGACGGGCATGGCGCTGCGGGTGG  
 TGCGTACCGACGGCATCTGGCACTCTACAGCGCCTGAGCGCCTCGCTGTGCAGACAGA  
 TGACCTACTCCCTGACTCGGTTCCGATCTACGAGACTGTGCGGGACCGTGTGGCCAAGG  
 GCAGCCAGGGGCTCTCCCTTCCACGAGAAGGTGTTGCTGGGCTCCGTCAGCGGTTTAG  
 CTGGAGGCTTCGTGGGGACGCCCGCAGACTTGGTCAACGTCAGGATGCAGAACGACGTGA  
 AGCTGCCCCAGGGTCAGCGGCGCAACTACGCCATGCGCTGGATGGCCTGTACCGCGTAG  
 CTCGTGAAGAGGGTCTCAGGAGACTGTTCTCGGGTGAACCATGGCATCCAGCCGAGGGG  
 CCTTAGTCACTGTGGCCAGCTGTCTGTACGACCAGGCCAAGCAGCTGGTCTTAGCA  
 CCGGGTACCTCTGACAACATCTTCACTACTTTGTGCGCCAGCTTTATTGCAGGTGGAT  
 GTGCCACGTTCTGTGCCAGCCCTGGATGTGCTGAAGACTCGCCTGATGAACTCCAAGG  
 GGGAGTATCAGGGCGTTTTCCACTGCGCCGTGGAGACAGCGAAGCTCGGGCCTCTGGCCT  
 TTTACAAGGGCCTCGTCCAGCTGGCATCCGCCTCATCCCCACACCGTGTCTCACTTTTG  
 TGTTTCTGGAACAGCTACGCAAAAACTTTGGCATCAAAGTGCCATCCTGACCAGCCGTGG  
 GAATGGCTGGGCTGCCAGGCCAGACACGCTAGGTTCTTCAAAGAGTCCCAAGCCAGCA  
 CCTGCTCTGGGGCCACGACCTCCCTGGCCGTGGCCACCCGTCCTCCGCAGCAGGGCCCT  
 GCTGTCCCCCACCTGTGGTGAAGTCTCTCTGGCCTCGTCCCTCTCAGCTGTAGCTG  
 CACCACCCCGCTCTGGTACCAGGCTCTCCCGGCTGGCACTGCGTGGCCTTGGCCCTC  
 TCCCGCTGGCAGTCTCAGGGGAACAGGGGCTACCAGAGGCTGATTTCTCCCTCTCTCT  
 GGGCCAGGGGAGGGGATTATCCCTGCCCTCTGCCCCGATGCCCAAAGCAGCATCTTCC  
 AGCACTTCCATCGAGGACTTGGGTGGCAGAGTGTGGGTGCAGCCTGGCTGTTGCTCACC  
 CAAGTGCTAGCTCTGCACTTCGTGTCTGCTGAGAGCAACCAGACCTTCCATGTCCTCGGG  
 CAGCTGCAACTCCCCGCGAGACCCCGCAGCTGGGTGGGATGAACAAGCAACGCAGACCAC  
 AAGCGAGTGCCTGGGAGGGAGTGGCCAGGGTGGTTCTGGAGCCATTGTGGGTGAGGGTC  
 GAGGGCCACCGAGGTCCCGCGCACCGCTGCCTGCCCTGCAGTGGCTTTAACAGTTAGTTT  
 TGCCAAAGCCTCTCCACTCACCAGCAGGCGGTCTCTGTCTTACAGGGATTGTGCCTGCGTC  
 CCTCGGGCACCTGGGCCCCCGCTTGGCTCCCTGGGGGAATGGCCAGGCGGGTGGCGG  
 TTCTCTTAGGGCCTTCTCCCCACAAGGAGTCCGACGGGGCGGATGCTGCATCTCTG  
 CCTCCCTGGTTCGCTGGGCTTACCCACCTGGGAAGGGCAGTGTGCTCTGTGGGGCTGC  
 AATCAATAAATGCCGGGAGCTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AA

**Restriction Sites:** Please inquire

**ACCN:** NM\_012140

**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\\_012140.3](#), [NP\\_036272.2](#)

**RefSeq Size:** 1960 bp

**RefSeq ORF:** 864 bp

**Locus ID:** 1468

**UniProt ID:** [Q9UBX3](#)

**Cytogenetics:** 17q25.3

**Domains:** mito\_carr

**Gene Summary:** This gene encodes a member of a family of proteins that translocate small metabolites across the mitochondrial membrane. The encoded protein exchanges dicarboxylates, such as malate and succinate, for phosphate, sulfate, and other small molecules, thereby providing substrates for metabolic processes including the Krebs cycle and fatty acid synthesis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]  
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.