

Product datasheet for **SC330900**

Mitochondrial dicarboxylate carrier (SLC25A10) (NM_001270953) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mitochondrial dicarboxylate carrier (SLC25A10) (NM_001270953) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mitochondrial dicarboxylate carrier
Synonyms:	DIC; MTDPS19
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Restriction Sites:	Sgfl-MluI
ACCN:	NM_001270953
OTI Disclaimer:	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.

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](#)

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).
-------------	--



[View online »](#)

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_001270953.1](#), [NP_001257882.1](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1221 bp

Locus ID: 1468

UniProt ID: [Q9UBX3](#)

Cytogenetics: 17q25.3

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 (3) uses an alternate splice site in the coding region, which results in a frameshift, compared to variant 1. The encoded isoform (3) has a distinct C-terminus and is longer than isoform 1.