

## Product datasheet for **SC332412**

### Citrate transport protein (SLC25A1) (NM\_001256534) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Citrate transport protein (SLC25A1) (NM_001256534) Human Untagged Clone
Tag:	Tag Free
Symbol:	Citrate transport protein
Synonyms:	CMS23; CTP; D2L2AD; SEA; SLC20A3
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332412 representing NM_001256534. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTTCCCGCGGCACTGGCGCGGCGGCCGACCGAAGTCCGGGACGGGGAGGGGCCGAGCGC
CAGCGGCCGGCGGGAGTCTCAGGAGCGGGTCCCGGTCCTGCAGGCGGCTGGCGGTGGCATCGAG
ATCTGCATCACCTTCCCCACCGAGTACGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCG
CGGTACCGGGGCATCGGGGACTGCGTGCGGCAGACGGTTCGCAGCCATGGCGTCTGGGCCTGTACCGC
GGCCTTAGCTCCCTGCTCTACGTTCCATCCCCAAGGCGGCCGTCAGGTTTGAATGTTTCGAGTTCTC
AGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCGTGGGCTGCTGTGCGGCCTGGGCGCT
GGCGTGGCCGAGGCCGTGGTGGTGTGTGCCCCATGGAGACCATCAAGGTGAAGTTCATCCACGACCAG
ACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCGGGAACAAGGCTG
AAGGGGACGTACCAGGGCCTCACAGCCACTGTCCTGAAGCAGGGCTCGAACCAGGCCATCCGCTTCTTC
GTCATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCATGAACCTCTGATCACT
GGGGTCTTCGGAGCTATTGCAGGCGCAGCCAGTGTCTTTGAAACACTCCTCTGGATGTGATTAAGACC
CGGATGCAGGGCCTGGAGGCGCAAAATACCGGAACACGTGGGACTGCGGCTTGACAGATCCTGAAGAAG
GAGGGGCTCAAGGCATTCTACAAGGGCACTGTCCCCCGCTGGGCCGGGTCTGCCTGGATGTGGCCATA
GTGTTTGTCACTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGAAGACGGACTAA
  
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Restriction Sites:	SgfI-RsrII
ACCN:	NM_001256534
Insert Size:	957 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).


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**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\\_001256534.1](#)

**RefSeq Size:** 1680 bp

**RefSeq ORF:** 957 bp

**Locus ID:** 6576

**Cytogenetics:** 22q11.21

**Protein Families:** Druggable Genome

**MW:** 35.1 kDa

**Gene Summary:** This gene encodes a member of the mitochondrial carrier subfamily of solute carrier proteins. Members of this family include nuclear-encoded transporters that translocate small metabolites across the mitochondrial membrane. This protein regulates the movement of citrate across the inner membranes of the mitochondria. Mutations in this gene have been associated with combined D-2- and L-2-hydroxyglutaric aciduria. Pseudogenes of this gene have been identified on chromosomes 7, 11, 16, and 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 1. The encoded isoform (b, also known as pmCiC) has a distinct and longer N-terminus, compared to isoform a. This isoform is supported by data in PMID:20448665.