

## Product datasheet for **RG200657**

### Citrate transport protein (SLC25A1) (NM\_005984) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Citrate transport protein (SLC25A1) (NM\_005984) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Citrate transport protein  
**Synonyms:** CMS23; CTP; D2L2AD; SEA; SLC20A3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200657 representing NM\_005984  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCCGCGCCCCGCGCCCCGCGCTCTGGCGGCCGCCGCGCCCGCTCCGGGAAGGCCAAGCTGACGC  
 ACCCGGGGAAGGCGATCCTGGCAGGCGGCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGA  
 GTACGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCGGTACCGGGGCATCGGGGACTGC  
 GTGCGGCAGACGGTTCGACGCCATGGCGTCTGGGCTGTACCGCGCCCTAGCTCCCTGCTCTACGTT  
 CCATCCCCAAGGCGCCGTCAGGTTTGAATGTTTCGAGTTCCTCAGCAACCACATGCGGGATGCCAGGG  
 ACGGCTGGACAGCACGCTGGGCTGCTGTGCGGCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCTGT  
 TGCCCCATGGAGACCATCAAGGTGAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGAT  
 TCTTCCACGGGGTTAGGGAGATTGTGCGGGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCAC  
 TGTCTGAAGCAGGGCTCGAACCAGGCCATCCGCTTCTTCGTCATGACCTCCCTGCGCAACTGGTACCGA  
 GGGGACAACCCCAACAAGCCATGAACCTCTGATCACTGGGGTCTTCGGAGCTATTGCAGGCGCAGCCA  
 GTGTCTTTGGAACACTCCTCTGGATGTGATTAAGACCCGGATGCAGGGCCTGGAGGCGCACAAATACCG  
 GAACACGTGGGACTGCGGCTTGCAGATCCTGAAGAAGGAGGGGCTCAAGGCATTCTACAAGGCACTGTC  
 CCCCCTGGGCGGGTCTGCCTGGATGTGCCATAGTGTGTCATCTATGATGAAGTGGTGAAGCTGC  
 TCAACAAAGTGTGAAGACGGAC

**CTCGAG** - GFP Tag - GTTTAA



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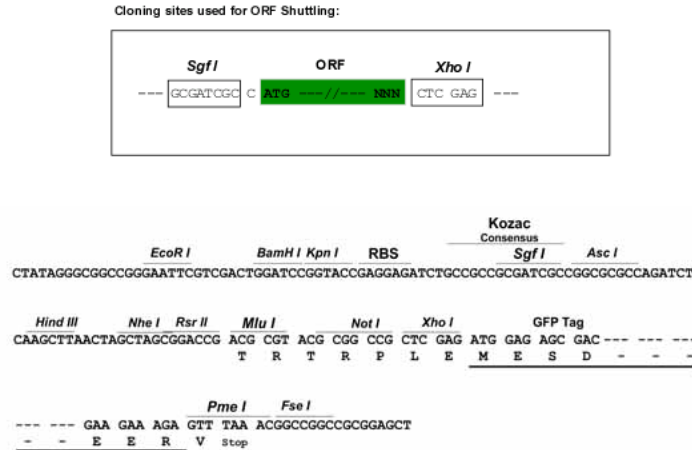
**Protein Sequence:** >RG200657 representing NM\_005984  
 Red=Cloning site Green=Tags(s)

MPAPRAPRALAAAAPASGKAKLTHPGKAILAGGLAGGIEICITFPTEYVKTLQLDERSHPPRYRGIGDC  
 VRQTVRSHGVLGLYRGLSSLLYGSIPKAAVRFGMFEFLSNHMRDAQRLDSTRGLLCGLGAGVAEAVVVV  
 CPMETIKVKFIHDQTSNPKYRGGFFHGVREIVREQGLKGTYYQLTATVLKQGSNQAIRFFVMTSLRNWYR  
 GDNPNKPMNPLITGVFGAIAGAASVFGNTPLDVIKTRMQGLEAHKYRNTWDCGLQILKKEGLKAFYKGTV  
 PRLGRVCLDVAIVFVIYDEVVKKLLNKVWKT

LE - GFP Tag - V

**Restriction Sites:** SgfI-XhoI

**Cloning Scheme:**



**ACCN:** NM\_005984

**ORF Size:** 933 bp

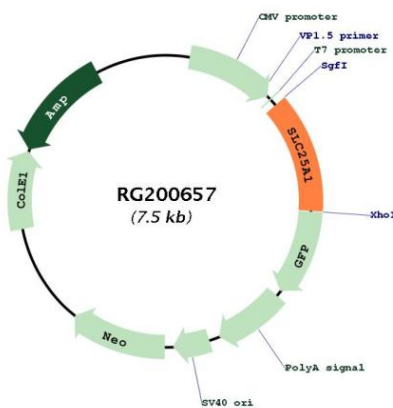
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_005984.5</a></u>
<b>RefSeq Size:</b>	1619 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	6576
<b>UniProt ID:</b>	<u><a href="#">P53007</a></u>
<b>Cytogenetics:</b>	22q11.21
<b>Domains:</b>	mito_carr
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]

### Product images:



Circular map for RG200657