

## Product datasheet for **SC301103**

### SLC25A25 (NM\_001006642) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A25 (NM_001006642) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC25A25
Synonyms:	MCSC; PCSCL; SCAMC-2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001006642, the custom clone sequence may differ by one or more nucleotides ATGTTGCAGATGCTGTGGCATTTCCTAGCTAGCTTTTTCCCCAGGGCTGGGTGCCACGGC TCCAGAGAGGGGACGATCGTGAAGTCAGAGGCACCCAGCCCCTGCCTGGAGAGACCAG ATGGCAAGCTTTTTGGGAAACAGGACGGAAGGGCTGAGGCCACGGAAAAAGACCCACC ATTTTGTGGTGGTTGGACCTGCAGAGCAGTTTCCTAAGAAAATTGTACAAGCTGGAGAT AAGGACCTTGATGGCAGCTAGACTTTGAAGAATTTGTCCATTATCTCCAAGATCATGAG AAGAAGCTGAGGCTGGTGTAAAGAGTTTGGACAAAAAGAATGATGGACGCATTGACGCG CAGGAGATCATGCAGTCCCTGCGGGACTTGGGAGTCAAGATATCTGAACAGCAGGCAGAA AAAATTCTCAAGAGCATGGATAAAAACGGCACGATGACCATCGACTGGAACGAGTGGAGA GACTACCACCTCCTCCACCCCGTGGAAAACATCCCCGAGATCATCCTCTACTGGAAGCAT TCCACGATCTTTGATGTGGGTGAGAATCTAACGGTCCCGGATGAGTTCACAGTGGAGGAG AGGCAGACGGGGATGTGGTGGAGACACCTGGTGGCAGGAGGTGGGGCAGGGGCCGTATCC AGAACCTGCACGGCCCCCTGGACAGGCTCAAGGTGCTCATGCAGGTCCATGCCTCCCGC AGCAACAACATGGGCATCGTTGGTGGCTTCACTCAGATGATTCGAGAAGGAGGGGCCAGG TCACTCTGGCGGGCAATGGCATCAACGTCCTCAAATGCCCCGAATCAGCCATCAA TTCATGGCCTATGAGCAGATCAAGCGCCTTGTGGTAGTGACCAGGAGACTCTGAGGATT CACGAGAGGCTTGTGGCAGGGTCCTTGGCAGGGGCCATCGCCAGAGCAGCATCTACCCA ATGGAGGTCTGAAGACCCGGATGGCGCTGCGGAAGACAGGCCAGTACTCAGGAATGCTG GACTGCGCCAGGAGGATCCTGGCCAGAGAGGGGTGGCCGCTTCTACAAAGGCTATGTC CCCAACATGCTGGGCATCATCCCCTATGCCGGCATCGACCTTGACAGTCTACGAGACGCTC AAGAATGCCTGGCTGCAGCACTATGCAGTGAACAGCGCGGACCCCGCGTGTGGTGTGCTC CTGGCCTGTGGCACCATGTCCAGTACCTGTGGCCAGCTGGCCAGTACCCCTGGCCCTA GTCAGGACCCGGATGCAGGCGCAAGCCTCTATTGAGGGCGCTCCGGAGGTGACCATGAGC AGCCTCTTCAAACATATCCTGCGGACCGAGGGGGCCTTCGGGCTGTACAGGGGGCTGGCC CCCAACTTCATGAAGGTATCCCAGCTGTGAGCATCAGCTACGTGGTCTACGAGAACCTG AAGATCACCTGGGCGTGCAGTCGCGGTGA
Restriction Sites:	Please inquire
ACCN:	NM_001006642



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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_001006642.1</a></u> , <u><a href="#">NP_001006643.1</a></u>
<b>RefSeq Size:</b>	3293 bp
<b>RefSeq ORF:</b>	1470 bp
<b>Locus ID:</b>	114789
<b>UniProt ID:</b>	<u><a href="#">Q6KCM7</a></u>
<b>Cytogenetics:</b>	9q34.11
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the family of calcium-binding mitochondrial carriers, with a characteristic mitochondrial carrier domain at the C-terminus. These proteins are found in the inner membranes of mitochondria, and function as transport proteins. They shuttle metabolites, nucleotides and cofactors through the mitochondrial membrane and thereby connect and/or regulate cytoplasm and matrix functions. This protein may function as an ATP-Mg/Pi carrier that mediates the transport of Mg-ATP in exchange for phosphate, and likely responsible for the net uptake or efflux of adenine nucleotides into or from the mitochondria. Alternatively spliced transcript variants encoding different isoforms with a common C-terminus but variable N-termini have been described for this gene. [provided by RefSeq, Jul 2012]