

## Product datasheet for **SC301102**

### SLC25A25 (NM\_001006641) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                          |
| Product Name:             | SLC25A25 (NM_001006641) Human Untagged Clone |
| Tag:                      | Tag Free                                     |
| Symbol:                   | SLC25A25                                     |
| Synonyms:                 | MCSC; PCSCL; SCAMC-2                         |
| Mammalian Cell Selection: | Neomycin                                     |
| Vector:                   | pCMV6-Entry (PS100001)                       |
| E. coli Selection:        | Kanamycin (25 ug/mL)                         |



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**Fully Sequenced ORF:** >SC301102 representing NM\_001006641.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGTGAGCAGTGTGTTGTGCCGCTGTGTGGCCTCCCCGCCGCCGACGCCGCCACCGCCCCCTCT
TCGTCTGCCTCATCGCCGGCGTCCGTGGGGACCCTGCGGCGGCGCTATCTGCGGGGGCCCGACCAC
CGGCTGCGCCTGTGGAGACTCTTTCAGACGCTCGACGTCAACCGGACGCGCGCCTGTGTGCAACGAC
CTGGCGGTGGGGCTGCGGCGCCTGGGACTGCACCCGACCGAGGGCGAGCTCCAGAAAATTGTACAAGCT
GGAGATAAGGACCTTGATGGGCAGCTAGACTTTGAAGAATTTGCCATTATCTCCAAGATCATGAGAAG
AAGCTGAGGCTGGTGTAAAGAGTTTGGACAAAAAGAATGATGGACGCATTGACGCGCAGGAGATCATG
CAGTCCCTGCGGGACTTGGGAGTCAAGATATCTGAACAGCAGGCAGAAAAAATCTCAAGAGCATGGAT
AAAAACGGCACGATGACCATCGACTGGAACGAGTGGAGAGACTACCACCTCCTCCACCCCGTGGAAAAC
ATCCCGAGATCATCCTCTACTGGAAGCATTCCACGATCTTTGATGTGGGTGAGAATCTAACGGTCCCG
GATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGTGGAGACACCTGGTGGCAGGAGGTGGGGCA
GGGGCCGTATCCAGAACCTGCACGGCCCCCTGGACAGGCTCAAGGTGCTCATGCAGGTCCATGCCTCC
CGCAGCAACAACATGGGCATCGTTGGTGCTTCACTCAGATGATTGAGAGAAGGAGGGGCCAGGTCACTC
TGGCGGGCAATGGCATCAACGTCCTCAAAATTGCCCCGAATCAGCCATCAAATTCATGGCCTATGAG
CAGATCAAGCGCCTTGTGGTAGTGACCAGGAGACTCTGAGGATTCACGAGAGGCTTGTGGCAGGGTCC
TTGGCAGGGGCCATCGCCAGAGCAGCATCTACCAATGGAGGTCTGAAGACCCGGATGGCGCTGCGG
AAGACAGGCCAGTACTCAGGAATGTGGACTGCGCCAGGAGGATCCTGGCCAGAGAGGGGGTGGCCGCC
TTCTACAAAGGCTATGTCCCAACATGCTGGGCATCATCCCTATGCCGGCATCGACCTTGACGTCTAC
GAGACGCTCAAGAATGCCTGGCTGCAGCACTATGCAGTGAACAGCGGGACCCCGCGTGTTTGTGCTC
CTGGCCTGTGGACCATGTCCAGTACCTGTGGCCAGCTGGCCAGCTACCCCTGGCCCTAGTCAGGACC
CGGATGCAGGCGCAAGCCTCTATTGAGGGCGCTCCGGAGGTGACCATGAGCAGCCTTTCAACATATC
CTGCGGACCGAGGGGGCCTTCGGGCTGTACAGGGGGCTGGCCCCAACTTCATGAAGGTATCCAGCT
GTGAGCATCAGCTACGTGGTCTACGAGAACCTGAAGATCACCCCTGGGCGTGCAGTCGCGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001006641

**Insert Size:** 1512 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).

**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\\_001006641.3](#)

**RefSeq Size:** 3446 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 114789

**UniProt ID:** [Q6KCM7](#)

**Cytogenetics:** 9q34.11

**Protein Families:** Druggable Genome

**MW:** 55.4 kDa

**Gene Summary:** 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]