

## Product datasheet for **MC227856**

### Slc25a25 (NM\_001290558) Mouse Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                          |
| Product Name:      | Slc25a25 (NM_001290558) Mouse Untagged Clone |
| Tag:               | Tag Free                                     |
| Symbol:            | Slc25a25                                     |
| Synonyms:          | 1110030N17Rik; MCSC; mKIAA1896               |
| Vector:            | pCMV6-Entry (PS100001)                       |
| E. coli Selection: | Kanamycin (25 ug/mL)                         |
| Cell Selection:    | Neomycin                                     |



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**Fully Sequenced ORF:** >MC227856 representing NM\_001290558  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCTGCCTGTGCCTGTATGTGCCCATCGCCGGGGCGGCTCAGACTGAGTTCCAGTACTTTGAGTCCA  
 AGGGGCTTCTGCGGAGCTGAAATCCATCTTCAAACCTCAGTGTCTTTATCCCCTCTCAAGAGTTCTCCAC  
 ATACCGCCAATGGAAGCAGAAAATTGTGAAGCAGGTGACAAGGACCTTGATGGGCAACTGGACTTTGAA  
 GAGTTTGTACATTACCTCCAAGATCATGAGAAAAAAGTGGGCTGGTGTCAAGAGTCTGGACAAAAAGA  
 ATGATGGTCAATCGATGCTCAGGAGATCATGCAGTCCCTGCGGGACCTGGGTGTCAAGATCTCGGAACA  
 GCAGGCGGAGAAGATTCTTAAGAGCATGGATAAGAATGGCAGATGACCATCGACTGGAACGAGTGGAGG  
 GACTACCACCTCTGCACCCTGTGGAGAACATCCCGGAGATCATCTGTACTGGAAGCACTCGACGATCT  
 TCGATGTCGGTGAGAATCTGACAGTCCCAGATGAGTTCACAGTGGAGGAGAGGCAGACGGGGATGTGGT  
 GAGGCACCTGGTGGCAGGAGGTGGGGCAGGGGCAGTTTCCAGAACCTGCACTGCCCCCTGGACAGACTG  
 AAGGTGCTCATGCAGGTCCATGCCTCCCGCAGCAACAACATGTGCATCGTAGGTGGATTCACACAGATGA  
 TTCGAGAAGGGGAGCCAAGTCACTCTGGCGGGCAACGGCATCAATGTCTCAAATGGCCCTGAGTC  
 GGCCATCAAATTCATGGCATATGAGCAGATGAAACGGCTTGTCCGGTAGTGATCAGGAGACGCTGAGGATC  
 CACGAAAGGCTTGTGGCAGGCTCCTTGGCCGAGCCATTGCCAGAGTAGCATCTACCCAATGGAGGTTT  
 TGAAGACCCGAATGGCCCTGCGGAAAACAGGACAGTACTCCGGCATGCTGGACTGTGCCAGGAGGATCTT  
 GGCTAAGAGGGTGTAGCTGCCTTCTACAAAGGCTACATCCCAACATGCTGGGGATCATCCCCTATGCT  
 GGCATCGACCTAGCTGTCTATGAGACATTGAAAAATACCTGGCTCCAGCGCTACGCAGTAAACAGTGCAG  
 ACCCGGTGTGTTCTGCTCCTGGCTGTGGTACTATCTCCAGTACTTGTGGCCAGCTGGCCAGCTACCC  
 ACTAGCCCTGGTCAGGACCCGGATGCAGGCACAAGCCCTCCATTGAGGGCGCACCTGAGGTAACCATGAGC  
 AGCCTTCTCAAACAGATTCTGCGGACTGAGGGGCCTTTGGGCTCTACCGGGGCTGGCCCCCAACTTCA  
 TGAAGGTGATCCCGGCTGTGAGCATCAGCTACGTGGTCTACGAAAACCTGAAGATCACCTGGCGTGCA  
 GTCTCGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001290558
- Insert Size:** 1410 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001290558.1](#), [NP\\_001277487.1](#)

**RefSeq Size:** 3195 bp

**RefSeq ORF:** 1410 bp

**Locus ID:** 227731

**UniProt ID:** [A2ASZ8](#)

**Cytogenetics:** 2 B

**Gene Summary:** Calcium-dependent mitochondrial solute carrier. Mitochondrial solute carriers shuttle metabolites, nucleotides, and cofactors through the mitochondrial inner membrane. May act as a ATP-Mg/Pi exchanger that mediates the transport of Mg-ATP in exchange for phosphate, catalyzing the net uptake or efflux of adenine nucleotides into or from the mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) contains an alternate 5' terminal exon and it thus differs in the 5' UTR and 5' coding region, and it lacks an alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (4) has a distinct N-terminus and is shorter than isoform 1.