

## Product datasheet for RN212935

### Slc25a1 (NM\_017307) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc25a1 (NM\_017307) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Slc25a1  
**Synonyms:** Cic; Ctp; Slc20a3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN212935 representing NM\_017307  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTGCGCCTCGCGCACCCCGCGCTCTGACGGCTGCCGCTCCCGGGTCCGGGAAAGCCAACTGACGC  
ACCCCGGGAAGGCGATCCTAGCAGGCGGCTGGCTGGAGGCATCGAAATCTGCATCACCTCCCGACCGA  
ATACGTGAAGACTCAACTACAGTAGATGAACGCGCAACCCACCGCGGTACCGGGCATTGGGGACTGC  
GTGCGGCAAACTGCCGAGCCATGGCGTCTGGGCTGTACCGCGGCTCAGCTCCTTGCTCTACGGCT  
CCATCCCCAAGGCGGCTGTCAGGTTTGGGATGTTTCGAGTTCCTCAGCAACCACATGCGGGATGCCAAGG  
TAGACTGGACAGCAGGAGAGGACTGCTGTGCGGTCTGGGTGCCGGCTGGCAGAGGCAGTGGTAGTCGTG  
TGCCCCATGGAGACCGTGAAGGTGAAATTCATCCATGACCAGACTTCCTCCAATCCAAAGTACCGAGGAT  
TTTTCCATGGGGTTAGAGAGATTGTTTCGGGAACAAGGGCTAAAGGGGACATACCAAGGCCTCACAGCTAC  
TGTAAGCAGGGCTCAAACCAAGCCATCCGATTCTTCGTATGACCTCCCTACGCAACTGGTACCAA  
GGAGACAACCCCAACAAGCCTATGAACCACTGATCACCGGGTCTTTGGAGCTGTCGAGGTGCAGCCA  
GTGTCTTTGGGAACACCCCTTGGATGTGATCAAGACCAGGATGCAGGGCCTGGAGGCACACAAATACCG  
GAACACCCTGGACTGTGGAGTGCAGATCCTGAAGAATGAGGGGCCAAGGCATTCTACAAGGGCACCGTT  
CCCCGGCTGGCCGAGTCTGCCTGGACGTGCCATCGTATTTCGTATCTATGATGAAGTGGTGAAGCTGC  
TCAATAAAGTGTGAAGACGGACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_017307  
**Insert Size:** 936 bp



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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>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>	<a href="#">NM_017307.3</a> , <a href="#">NP_059003.1</a>
<b>RefSeq Size:</b>	1669 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	29743
<b>UniProt ID:</b>	<a href="#">P32089</a>
<b>Cytogenetics:</b>	11q23
<b>Gene Summary:</b>	This gene encodes a member of the mitochondrial carrier family. The encoded protein is responsible for the movement of tricarboxylates, such as citrate, across the inner mitochondrial membrane. It is essential to the bioenergetics of hepatic cells, supplying the cytoplasm with a carbon source for fatty acid and sterol biosynthesis, and NAD <sup>+</sup> for the glycolytic pathway. [provided by RefSeq, Jul 2008]