

## Product datasheet for MC212859

### Slc25a44 (NM\_001145876) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc25a44 (NM\_001145876) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Slc25a44  
**Synonyms:** 6720482A19; B430110G05Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212859 representing NM\_001145876  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGACAAACGGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTT  
 GTGTTGCTATGACAATGATGATCAGGGTCAGCGTGTACCCGTTCCACCTCATCCGCACCCGCTGCAGT  
 CCAGAAGGGCAAGAGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGT  
 GCGGGCCTCTACCGGGGTTCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGTATGTCACCACTT  
 ACGAGCTCACCCGGAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGG  
 CTCGGCCTCCCTTGTGGCCAGAGCATCACGGTCCGATCGATGTTGTCTCCCAACATCTGATGATGCAG  
 CGGAAGGGTGAGAAAATGGGTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTATTGCCTTTG  
 GCCAGACTAAGGACATCATCAGGCAGATCCTTCGGGTGACGGTCTCCGAGGCTTCTACCGGGGCTATGT  
 GGCCTCGCTGCTAACGTACATCCCAAACAGTGTGTCTGGTGGCCCTTCTACCACTTCTATGCAGAGCAG  
 CCACTGCCTCCATCCTCACCAATCCCATGGATGTCATCAGAACCCTGTGCAGGTTGAAGGCAAGAGCTC  
 CATCGTCTGACCTTCAGGCAGCTGATGGCAGAGGAGGGCCTTGGGGCCTCATGAAGGGCCTCTCGGCA  
 AGAATCATCTCGCTACCCCTCCACCATCGTCATCGTGGTGGGCTACGAGAGCCTCAAGAAGCTCAGCC  
 TGGCAGCTGAGCTGGTGGACTCGAGACTGGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001145876  
**Insert Size:** 945 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_001145876.2</a> , <a href="#">NP_001139348.1</a>
<b>RefSeq Size:</b>	3538 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	229517
<b>UniProt ID:</b>	<a href="#">Q8BGF9</a>
<b>Cytogenetics:</b>	3 F1
<b>Gene Summary:</b>	<p>Mitochondrial solute transporter which transports branched-chain amino acid (BCAA; valine, leucine and isoleucine) into mitochondria in brown adipose tissue (BAT) (PubMed:31435015). BAT is involved in BCAA catabolism and actively utilizes BCAA in the mitochondria for thermogenesis (PubMed:31435015).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translational initiation codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a. Both variants 2 and 4 encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>