

## Product datasheet for **MC226975**

### Slc25a44 (NM\_001281795) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc25a44 (NM\_001281795) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Slc25a44  
**Synonyms:** 6720482A19; B430110G05Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC226975 representing NM\_001281795  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGACAAACGGAACATCCAGATCATCGAGTGGGAGCACCTGGACAAGAAGAAGTTCTATGTGTTTG  
 GTGTTGCTATGACAATGATGATCAGGGTCAGCGTGTACCCGTTACCCTCATCCGACCCCGCTGCAGGT  
 CCAGAAGGGCAAGAGCCTCTACCACGGGACCTTCGATGCCTTTGTCAAGATCCTGCGAGCAGATGGAGTG  
 GCGGGCCTCTACCGGGGTTCTGGTCAACACCTTCACACTCATCTCCGGCCAGTGCTATGTCACCACTT  
 ACGAGCTACCCGGAAGTTTGTGGCAGACTACAGCCAGAGTAACACAGTCAAATCACTCGTAGCCGGGGG  
 CTGGCCTCCCTTGTGGCCAGAGCATCACGGTCCGATCGATGTTGTCTCCCAACATCTGATGATGCAG  
 CGGAAGGGTGAGAAAATGGTTCGCTTCCAAGTGCACGGGAACCTAGAGGGACAAGGGGTGATTGCCTTTG  
 GCCAGACTAAGGACATCATCAGGCAGATCCTTCGGGCTGACGGTCTCCGAGGCTTCTACCGGGGCTATGT  
 GGCCTCGCTGCTAACGTACATCCCAAACAGTGCTGTCTGGTGGCCCTTCTACCATTCTATGCAGAGCAG  
 CTGTGCGCCTGTGCCCTCAGGAGTGCCCTCACATTGTCTTTCAAGCCATCTCTGGGCCCTGGCTGCAG  
 CCACTGCCTCCATCCTCACCAATCCCATGGATGTATCAGAACCCTGTGCAGGTTGAAGGCAAGAGCTC  
 CATCGTCTGACCTTCAGGCAGCTGATGGCAGAGGAGGGCCCTTGGGGCCTCATGAAGGGCCTCTCGGCA  
 AGAATCATCTCGGCTACCCCTCCACCATCGTCATCGTGGTGGCTACGAGAGCCTCAAGAAGCTCAGCC  
 TCGGACCTGAGCTGGTGGACTCGAGACTGGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3714\\_b10.zip](https://cdn.origene.com/chromatograms/ja3714_b10.zip)

**Restriction Sites:** SgfI-MluI



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<b>ACCN:</b>	NM_001281795
<b>Insert Size:</b>	945 bp
<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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001281795.1</a></u> , <u><a href="#">NP_001268724.1</a></u>
<b>RefSeq Size:</b>	3459 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	229517
<b>UniProt ID:</b>	<u><a href="#">Q8BGF9</a></u>
<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 (4) 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).</p>