

## Product datasheet for **MC203709**

### **Slc16a1 (NM\_009196) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc16a1 (NM_009196) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc16a1
Synonyms:	AL022710; Mct1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC014777  
 CCGACGCGTGGGCGGACGCGTGGGTGCGACGTGACTGGTCGGTCTGTAGGTGCAGCAGCCAAGGAGCCC  
 GGCGGGCGGCAGGGGACACGAGCGGGACCCCCCGGCTCCGAGGAACTGCGGGCCCTAGCCGCCGCGTCAC  
 GCATACTCCGGGCGCCGCGAGACACACATAACGATACTAGATTTGCGCTGCATCTTGAATTTCATCTACA  
 CTTAAATGCCACCTGCGATTGGAGGGCCAGTGGGATACACCCCCCAGATGGAGGCTGGGGTGGGCAG  
 TGTTAGTCGGAGCCTTCATTTCTATTGGCTTCTCTATGCATTTCCAAATCCATCACTGTCTTCTTTAA  
 AGAGATAGAAGTTATATTCAGTCAACGACCAAGTGAAGTATCATGGATATCATCTATAAATGTTGGCTGC  
 ATGTATGCTGGAGTCTATCAGCAGTATCTTGGTGAATAAATACGGCAGCCGTCAGTAATGATCGCTG  
 GTGGTTGTCTGTCTGGTTGCGGCTTGATCGCAGCTTCTTTCTGTAACACAGTACAGGAACTTTACTTGTG  
 CATTGGTGTATTGGAGGCTTTGGGCTTCTTTCAACTGAACCCAGCTCTGACTATGATTGGCAAGTAT  
 TTCTACAAGAAGCGACCACTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCTCTACCCCTGG  
 CTCCTACTAATCAGGCTTCTTTGATATTTTGGACTGGAGAGGAAGCTTCTAATTTGGGGGCTCCT  
 CCTAAATGTTGTAGCTGGATCCCTGATGAGACCAATAGGGCCTGAGCAAGTCAAGCTAGAAAACTC  
 AAGTCAAAGAATCTCTACAGGAAGCTGGAAAATCTGATGCAAAACAGATCTCATTGGAGGAAGTCCCA  
 AAGGAGAAAAGCTGTCCGCTTCCAAACAATTAACAAATTCCTGGACTTGTGCTGTTTACCCATAGGGG  
 CTTTTACTGTACCTGTCTGAAATGTGGTCATGTTTTTGGACTCTTACCCTTTGGTCTTCTTAGT  
 AGTTATGGTAAGAGTAAGGATTTTTCCAGTGAGAAATCAGCCTTCTTCTTTCCATTTTGGCTTTTGTG  
 ATATGGTAGCCAGACCGTCCATGGGACTTGCGCAACACCAAGTGGATCAGACCTCGGATCCAGTACTT  
 TTTTGTGCTTCTGTTGTTGCAATGGAGTGTGCCATTTGCTTGGCCCTTTGTCTACAACCTACGTTGGG  
 TTCTGTGTCTACGCCGGAGTCTTTGGATTTGCCTTTGGTTGGCTCAGCTCTGATTTTAAACATTGA  
 TGGACCTCATTGGACCCAGAGGTTCTCCAGTGTGTGGGCTTGGTGACCATTGTGGAATGCTGCCTGT  
 CCTCCTAGGGCCACCCTTTAGGCCCTCAATGACATGTATGGAGACTACAAATACACGTACTGGGCT  
 TGTGCGTGATCCTCATCATCGCGGGTATCTATCTTTCATTGGCATGGGCATCAACTATCGACTCTTTG  
 CCAAAGAACAGAAAGCGGAGGAGAAGCAGAAAAGGGAAGGAAAAGAGGACGAGGCCAGCCGATGTCGA  
 CGAGAAGCCAAAGGAGAGCATGAAAGCTGCACAGTCCGCCAGCAGCACAGCTCCGGGGACCCACAGAG  
 GAGGAGAGCCCTGTCTGACCTGTGAAGCCTGGAGAGAGCAGCGTGTGACCCACGACATCCAAAACCATC  
 TGCTGGCCTCTAGTCTACCAGTGGTCTCAGTGCAGACAGTGGACATTTGTGAAAAACCTACCGGGT  
 TTCATTGGTGGGATTTTTTTTTTCACTCCTTACCAATGCCTGAATTTAAATATACTATGCTTTAGGTAG  
 GGAGTGGTTGGCAAAGGATATGGGAAAGAAGTAGTATTTCTTTTTGTTGTTTGTGTTTTGTTTAACT  
 TAGCTTTTAAACAGTGTCTGAAGATTATAATATGTGCCTAAGTTTTAGTTTTTAAAGTCTTTAGAGAG  
 CCTTAACTTTTAAACCATTTCTGCTGAATTCATTTGTTTTAAATGTCATTTTAAAGGAAAAATAACAAC  
 TAGCTTGCTTGAGGTAACCTAATCTTGTGTTTTGTTGTTGTTGTAATGCTTTGTCAGACATTGTTA  
 CTGGAACATTTATGAATAGAGGTATTGGTTAAAAGTCGCAGGTTTATAAAATACTGACTAAAATTTTT  
 CTAGCATTATAGTTGCCTGGCATAATCCACCTGCTAGGTATATATTTAAGAAATTTGAAACATAAAATTT  
 GGGAACTCTTGGCAGTTCAGCCACAGCCTGTACCTGCTGGGCACTTCTCAAATGCTTACTACAGCCT  
 CGTGCTGAAGTGTATCACTAACTGTCACCTTTGCTCCTATTCAGAGACACTGAAATCACTGCAAAAAG  
 GTTAGTATTAACATCTACAAAACAACCTTTAACACGCTGATTTAATGTATGCAGTATTTCAAGCAGCA  
 GCTGAATTCAGTGTAGGTTTCCCAAACCTTAGTTACGGTATGAGAATCTTAGGTATGTGTTGGGTTTGG  
 GGGCTCTGAGGTGTTGGTCTTAGGTTTGAACCCAGGGCCACAAGCATGCTAAGTGCATGCTGTACCAT  
 GAGCCACAACCCACAGGCACCCTGGAATCCTTCTCCTTGACCCCTGAAACCTTTTCTCTTGGTTTTGAT  
 AGTTCATTTATACCACTACTAGTTTAGAGCTGTATGTGGGATGATTCAGTACCGACTGAATGGATGTGC  
 TTTTGTGTTTTTACATTGTTTTTCAAGTATTTGCAAAACACGAGGGTTAGAGTTTGGCCTCAGGGAAGCC  
 AATAAAGATAAAATGGGAGGAAGTTTGGTGAAGTGTATCATGCTTACGATTATTTGACATAGTCTTA  
 CCTCCACACCTTAACTTTTATGACCTTTCACTCACCTGAAATGTAGAAAAATGGGTTTCAAGTGAAGGAT  
 AAGAGGAAAGATGGACCAGATTGGAACACAGTGTGTTTGGGTTTTTTTTTTTTTAACTGATGTCTTC  
 TGAATAGAGGCAGAAAAAATAAGACATATGACACTGAATGTACTCAATGTGTTTAAAAATACCATTGTA  
 ATTGACAGGGTGAATATAGATTTAAACCTTGTGAAGAAGCTGACTTTTTCCAAATAAAACATTTATTT  
 TATTTTTAAAAAATAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_009196

<b>Insert Size:</b>	1482 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>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="#">BC014777</a></u> , <u><a href="#">AAH14777</a></u>
<b>RefSeq Size:</b>	3240 bp
<b>RefSeq ORF:</b>	1482 bp
<b>Locus ID:</b>	20501
<b>UniProt ID:</b>	<u><a href="#">P53986</a></u>
<b>Cytogenetics:</b>	3 F2.2
<b>Gene Summary:</b>	Proton-coupled monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate. Depending on the tissue and on circumstances, mediates the import or export of lactic acid and ketone bodies. Required for normal nutrient assimilation, increase of white adipose tissue and body weight gain when on a high-fat diet. Plays a role in cellular responses to a high-fat diet by modulating the cellular levels of lactate and pyruvate, small molecules that contribute to the regulation of central metabolic pathways and insulin secretion, with concomitant effects on plasma insulin levels and blood glucose homeostasis. [UniProtKB/Swiss-Prot Function]