

Product datasheet for **MC216941**

Slc16a4 (NM_146136) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a4 (NM_146136) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc16a4
Synonyms:	AW146050; MCT 5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216941 representing NM_146136
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGAAGAAGGAAAAACGCCCTCCCCTTACACCAAACCCCTTGATGGAGGATGGGGTGGATGGTCCG
 TGCTTCATTTTTTCTGGTAAATGTGTTTGTGATGGGAATGACCAAGACATTTGCAATTTCTTTGTGGT
 TTTTCAAGAAGAGTTTGAAGCACTTCAGAGCAAATTGTTGGATTGGATCCATTATGTCATCACTCCGT
 TTCTCTGCAGGTCCCCTGGCTGCTATCATCTGTGACGTAAGTGGAGAGAAAGCTACCTCCATTCTTGGGA
 CGTTCTTGTCTCTGGTGGCTATGTCATCAGCAGCTGGGCCACAGGCATTCCTTTCTTTGTGTGACCAT
 GGGGCTGCTACCTGTTTGGGATCTGCTTTCTGTACCAAGTAGCTGCTGTGTAATTACCAAATATTTT
 AAAAAACGATTGGGCCTTTCTACAGCAATTGCCGTTCTGGAATGGGGCTGACATTTTTGTTGGCACCT
 TTACAAAATTCCTCATAGATCTTATGACTGGACAGGCGCTCTATTTTATTTGGAGCAATTATATTGAA
 CTTGGTGCCTCCAGCATGCTCTTAAGACCCATCCACAGCCAATCAAACAACAATTCTGACATTGAAAAC
 AAAGGTAGCATTTTGTCTGCAACTGAACAGAGGCATCATACAAGACAGAGACATCGAAGTGAAGGAGA
 CACAGGAGCCTTTCATCAAGACAGTACTATGAAGAAATCTGAACAACCTACCACAACCTTAACTGTCTT
 AGGAAATCAAAGCGAAGAGTTTCAGCAATAGGCCTCACAGGAACAGGCCGTTACTTATGAGCAATGGCAA
 AGTCACAAGAAAAAGTTTGTTCATGGAAGTCAAAACAAAAACTTTTAGATATCTCGCTCTTTAGAAACC
 CTTTCTTCTACATTTTTACCTGGTCTTTTCTCCTGAGCCAATTAGCATATTTTCAATCCCCTTTCCACCT
 AGTAGCCAGAGCAAAACACTTGGGATTGACGTAATGGATGCCTCCTACCTTGTGTCTGTAGCTGGTATC
 ACTGAGACAGTCAGTCAGCTCATTCTGGATGGATTGCTGATCAAAATTGGATCAAGAAGTATCAATACC
 ACAAGTCTTACCTATTCTGTGTGGTGTGACTAACCTGCTTGCTCCTTTAGCCACCACATTCCCCTCCT
 TATGGCCTATAACCATCCTTTTTGCCATTTTTGCTGGTGGCTACCTGGCACTAATACTGCCAGTATTGGTT
 GACCTATCTAAGAATTCTAGAGTACACAAGTTTTTGGGATATGCCAGTTTCTTTGCCGGGATAGCTGTAC
 TTTCTGGACCACCAATAGCAGGCTGGATATATGATTACACACAGACTTACACAGGCTCTTTCTATTTCTC
 TGGCACCTGCTATATCTCTCTTCAGTTTCCCTTTTTTTGTACCACTGGCTGAAAGATGGAACGCAAA
 CAGTCTGACCTTCTGAGGACTACAATCAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_146136

Insert Size: 1503 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).

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_146136.1](#), [NP_666248.1](#)

RefSeq Size: 2216 bp

RefSeq ORF: 1503 bp

Locus ID: 229699

UniProt ID: [Q8R0M8](#)

Cytogenetics: 3 F2.3

Gene Summary: Proton-linked 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 (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.