

Product datasheet for **MC217174**

Slc38a2 (NM_175121) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a2 (NM_175121) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc38a2
Synonyms:	5033402L14Rik; AI316867; ATA2; mKIAA1382; SAT2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217174 representing NM_175121
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAAGACCGAAATGGGAAGTTCAACATCTCCCGGATGAGGACAGCAGCAGTTACAGCTCCAACA
 GTGACTTCAACTACTCATACCCACCAAGCAGGCTGCTCTGAAAAGCCATTATGCCGACGTGGATCCCGA
 AAACCAGAACTTTTACTTGAATCAAATTTGGGGAAGAAGAAGTACGAAACAGACTTTTCATCCAGGTA
 ACTTCTTTTGAATGTCAGTATTTAATCTGAGCAATGCGATTGTGGGCAGTGAATCCTTGGGCTTTCTT
 ATGCCATGGCTAACTGGAATTGCTCTTTTATAAATTCTTTGACGTTTCGTGTCAATTTTTTCGTATA
 CTCCGTCCATCTCCTCAAGACTGCCAACGAAGGAGGATCTTATTGTACGAACAGTTGGGACATAAG
 GCGTATGGTCTGGCTGAAAAGCTAGCAGCCTCCGGATCGATAACCATGCAGAACATTGGGGCTATGTCAA
 GCTACCTTTCATAGTGAATATGAGTTACCTTTGGTGATCAAGGCATTAATGAACATTGAAGATACAAA
 TGGGTTGTGGTATCTGAACGGTGACTATCTGGTCTTCTGGTGTCCCTTGTCTCATTCTCCATTGTCA
 CTGCTGAGAAATCTAGGATACTTGGGGTACACCAGCGGCCTCTCTGCTCTGTATGATATTTTTCTCGA
 TCGTGGTGATTTGCAAGAAGTTTCAGATCCCTTGCCCGTGAAGCTGCTTTGGTGGCCAACGAACTGT
 GAACGGCACCTTTACCCAGGCAGCGTTGGCGTTGGCATTCAATAGCACCCGACAGCATGCTTGCAGGCCA
 CGCTATTTTCATCTTCAACTCGCAGACTGTGTATGCAGTACCCATCCTGACGTTTTCTTTGTCTGCCATC
 CCGCTGTTCTTCCCATCTACGAAGAGCTAAAGAGCCGACCCGGAGACGGATGATGAACGTGTCCAAGAT
 TTCCTTCTCGCCATGTTTCTGATGTACTTGCTCGCTGCTCTCTTTGGTACCTGACCTTTTACGGACAC
 GTGGAATCGGAATTGCTGCATACCTACTCCGAGATCGTGGGACTGACATTCTTCTCCTTGTGTCCGAT
 TGGCTGTGCTGGTGGCTGTCACCTCACGGTCCAGTAGTTATTTTCCCTATCCGGAGTTCGGTCACTCA
 CTTACTGTGTCCACAAAAGAGTTCAGCTGGCTCCGGCACAGCATCATACCGTGACCATCTTGTCTTTC
 ACCAATTTGCTCGTCATCTTTGTCCCACTATTAGGGACATCTTCGGGTTATTGGGGCTCGGGCGGCTG
 CCATGCTGATCTTTATCCTCCCGTCTGCCTTCTACATCAAGTTAGTGAAGAAGGAACCAATGAGATCCGT
 GCAAAAAGATTGGGGCTCTGTGTTTTCTCCTGAGTGGCATAGTGGTGATGATTGGAAGCATGGGCTTGATT
 GTGCTGGATTGGGTCCACGATGCCTCCGCTGCAGGTGGGC**CTAA**

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_175121

Insert Size: 1515 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<ol style="list-style-type: none">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:	<u>NM_175121.3</u> , <u>NP_780330.2</u>
RefSeq Size:	4645 bp
RefSeq ORF:	1515 bp
Locus ID:	67760
UniProt ID:	<u>Q8CFE6</u>
Cytogenetics:	15 F1
Gene Summary:	Functions as a sodium-dependent amino acid transporter. Mediates the saturable, pH-sensitive and electrogenic cotransport of neutral amino acids and sodium ions with a stoichiometry of 1:1. May function in the transport of amino acids at the blood-brain barrier and in the supply of maternal nutrients to the fetus through the placenta.[UniProtKB/Swiss-Prot Function]