

Product datasheet for **MC201750**

Slc29a4 (NM_146257) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc29a4 (NM_146257) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc29a4
Synonyms:	ENT4; mPMAT
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025599 sequence for NM_146257
 CCACGCGTCCGCCGGACACCGAGCAGGACGCCCGCCGCGCCCGTCCCAAGCCTCGAGAAGCGGGGCAC
 AGCGCAAAGGGTCCGGGCGCGGGCGGCAGGCAGGCAGGATCCCAGCCTGGGGCCGCCGAGTGTGA
 ACTGCCATGGGCTCTATCGGAAGCCAGCGCCTCAAGGAGCCCTGCGTGGCAGCCACATCTGACCAGAGTG
 TGGTGACAAGCTTTAGCTTTGACAACTTCCAGCTGGAGACGACAGCAGAGGGGGCTCAGGATCCAGGCAT
 CAGAGTCAGGGGTGTCCCACCTTTCACAGACTCTGCGGTAGAGGAGCCTGTGCCAGATGACCGCTACCAT
 GCCATCTACTTTGCCATGCTGTGGCTGGCGTGGGCTTCTACTGCCATAACAACAGCTTTATCACCCATG
 TCGACTATCTTACCACAAGTACCCAGGGACCTCCATCGTATTTGACATGAGCCTCACCTATATCCTGGT
 GGCATTGGCGGCTGTGCTCCTAAACAACGTTGTGGTGGAGAGTTGAACCTGCACACCAGGATCACCACA
 GGCTACCTCCTCGCCTTGGGTCCCTTGCTTTTATCAGCATATGCGATGTGTGGTGCAGCTCTTCTCTC
 ACGACCAGGCTTACGCCATCAACCTGGCCGCCGTGGGCACTGTGGCCTTTGGTTGCACAGTGCAGCAATC
 TAGCTTCTATGGCTACACGGGATTACTGCCAAGAGGTACACGCAGGGTGTGATGACTGGAGAGAGCAG
 GCAGGGGTGATGATCTCTGAGTCGAATCCTCACTAAGCTGCTGCTCCCGGACGAGCGGGCCAGCACCA
 TCATCTTCTTCTGGTGTCTGCCGGCTTGAGCTCCTGTGCTTCTGCTGCATCTGCTGGTGGCGGCAG
 CCGTTTTGTGCTCTACTATACCACTCGGCCCGTGACAGCGCCCGTCCAGGCAGGCTACCGAGTGCAC
 CAGGATGTGCGATCCGGAGACATCCACTTTGAGCACAAACTCCAGCCCTATCCAGCAGCAGGTCGCCGA
 AGGAGAGCCCGGCCATGAGGTGACGCACAGCAACAGTGGGGTCTACATGCGTTTTGATGTGCCCGGGCC
 ACGAGTCAAACGAAGCTGGCCACCTTCAGAGCCCTGCTGTTGCACCGATACGTCGTGGCGGGGTATC
 TGGGCCGACATGCTGTCCATTGCGGTAACCTACTTCACTGACTGCTGTTTCCGGGCTGGAGTCCG
 AGATCCGCCACTGCGTGTGGGGAGTGGCTGCCATCCTGGTGTGGCCGTGTTCAACCTGTGAGACTT
 TGTGGGCAAGATCCTGGCAGCCCTGCCCGTGGAGTGGCGGGGCACTCACCTGCTCGCCTGCTTTGCCG
 CGTGTGGTCTTTCATCCCCCTTTCATCCTGTGTGTGTACCCAGTGGCATGCCTGCCCTCCGCCACCCTG
 GCGAGCTGAAAAAGTGAGCCCCAAGCAGCGGAACTGGCAGGAAACACCATGACTGTGCTACATGTCG
 GGGCTGACCTGGGCTCTGCTGTGGCCTACTGCACCTACAGCCTACCCGAGATGCCACGGCAGTGTCT
 TTCAAACAGCCACCGCCGCCGCCCAACGACTCCATCCCTGTCGGTCCCTGAGCCGGGCCACCCAATC
 CTGCCCTGCCCAGGAAGAGCTGCCTGGGCCAGTTACCCCAAGGCCTGAGGACCCTCCCACCCCTGCCT
 CAGTGCCTGCGGGTCTGGCCACCTCCTAAGCCACTAACGCCACCTTGGCACCTTGTCCCAGTTGTCCA
 AAACAGCTGGAATTTGCTTTCACCGCCAGGGCACCCTCCCGTGTCTGTGTTTGGTACAGACCTG
 CCCTTACCCTCTGTGTCCAGAGGCCAGCATCTGTACACATCAAGGGGGCGTTTATTAGTCTTAGAG
 CCACTCGAATGGCTGGCCACAGTCTGAGCTGACTCCCTTCAGTGTGACCCCACTGTGTGGTTCCATGGT
 CTTGATGTGGTTTTTATTTACTGGTCAAGGGGCACCTCCCTGTATTAGAAATCTTGGAGGAAAGTCCCC
 AACTCCGTTCTGTCCCTTCTTGTCTTCTAGACACTTCTTACAGCCCTACCCCTGCACCCGCACACATAA
 AGCGTCAAGTCTGAAAACTCATTCTCATACACAGGCCTCCTGTAGTCATAGCAACAGAGATGACCTAG
 GTGCACCCACCTTAGGTGGAGGACTTCCCATGCACACCACCACCCCTTCTAGAGCACAGGCTAAGGGCC
 ACGGCTAACAGGGACGTCCCATTTCTTCTGTTCCATCCAACCTACCCATCATGCAGGGACAGTGTGAG
 TCCACTCGTGACCTAGGCCGCCCACTCCCATCCACCGAGAGTCAAGTGTGACACGACACACTTGAAC
 CCTGGCAAGTGGCTGCAAGGTGAGGATTGACTCGTGGGTGCCAGGATCGGCTGGAGGACCTCCTGCCAA
 AGAGAGCTTTTGTGAGCCGGGACACTTGCCCTCCACACAGTGGCCCGCCAGCCGACCCCTGTACCA
 GTCCTGTGTGCTGTCTACCTGTGTGTTCTCTGACTACCGCACTGGCCATTAATATGCGAGAGACT
 GCCAA
 AA AAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_146257
Insert Size: 1587 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:	<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:	BC025599 , AAH25599
RefSeq Size:	2886 bp
RefSeq ORF:	1587 bp
Locus ID:	243328
UniProt ID:	Q8R139
Cytogenetics:	5 G2
Gene Summary:	Functions as a polyspecific organic cation transporter, efficiently transporting many organic cations such as monoamine neurotransmitters 1-methyl-4-phenylpyridinium and biogenic amines including serotonin, dopamine, norepinephrine and epinephrine. May play a role in regulating central nervous system homeostasis of monoamine neurotransmitters. May be involved in luminal transport of organic cations in the kidney and seems to use luminal proton gradient to drive organic cation reabsorption. Does not seem to transport nucleoside and nucleoside analogs such as uridine, cytidine, thymidine, adenosine, inosine, guanosine, and azidothymidine. In (PubMed:16873718) adenosine is efficiently transported but in a fashion highly sensitive to extracellular pH, with maximal activity in the pH range 5.5 to 6.5. Glu-206 is essential for the cation selectivity and may function as the charge sensor for cationic substrates. Transport is chloride and sodium-independent but appears to be sensitive to changes in membrane potential. Weakly inhibited by the classical inhibitors of equilibrative nucleoside transport, dipyridamole, dilazep, and nitrobenzylthioinosine. May play a role in the regulation of extracellular adenosine concentrations in cardiac tissues, in particular during ischemia (By similarity). [UniProtKB/Swiss-Prot Function]