

Product datasheet for **MC217266**

Slc7a6 (NM_178798) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc7a6 (NM_178798) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc7a6
Synonyms:	AI643885; LAT-2; LAT3; y+LAT-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC217266 representing NM_178798
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCACAGGAGCTTGGGAGCCCCACACCCACCTACCATCTTCTCCCAAAGCCAACCAGCACACTG
 TAAAAGAAGATGCCGGCTCACCATCTCAAGGGTCTCCAGAAACGATGCAGCTGAAGAAGGAGATCTCCTT
 GCTGAACGGGGTCAGCCTGGTGGTGGGCAACATGATTGGCTCAGGGATCTTTGTCTCACCGAAGGGTGTC
 CTCAAGTACACTGCTTCCTATGGGTTGTCACTTATAGTGTGGGCCATTGGTGGGCTCTTCTGTCTGTGG
 GTGCCCTTTGCTATGCAGAACTGGGACCACCATCACCAATCAGGGGCTAGCTATGCTTATATTCTAGA
 GGCCTTCGGGGGCTTCATTGCCTTTATCCGTCTGTGGGTCTCACTTCTAATTGTTGAGCCCAACAGTCAG
 GCCATCATCGCCATCACCTTTGCCAACTATATCATCAAGCCCTCCTCCCACTGTGATCCTCCATATG
 TGGCCTGCCGTCTCCTCGCTGCTGCCTGCGTATGTCTGCTGACATTTGTGAAGTGTGCCTACGTCAGTG
 GGGCACACGAGTACAAGACACATTCACGTATGCCAAGGTCTGGCACTCATTGCCATCATTATCATGGGC
 CTTGTAAACTGTGTCAAGGACACACTGAGCACTTTCAAGACGCCCTTAAAGGTTCTCGTGAATGTGG
 GAGACCTCTCTCTGGCCTGTACTCTGCCTCTTCTCTTACTCAGGTTGGGACACCCCTTAATTTGTAAC
 AGAAGAAATCAAAAACCCAGAAAGGAATTTGCCCTTGGCCATTGGGATTCTATGCCAATTGTGACACTC
 ATCTACATCCTGACCAACGTGGCCTATTACACAGTGCTGAACATTCAGGATGTCCATAAGAGTGACGCTG
 TGGCTGTGACATTTGCTGACCAGACATTCGGCATGTTCAAGTTGGACCATCCCCATTGCTGTTGCTCTGTC
 CTGCTTCGGGGGCTAAATGCATCCATCTTTGCTTCATCAAGTTGTTTTCTGTTGGGCTCTCGTGAGGGC
 CACCTCCCGAACCTTCTGTCCATGATCCATATTGAGCGCTTTACACCCGTGCCTGCGTTACTGTTCAATT
 GCACCATGACACTTATCTACCTCGTGGTGAAGGACGTCTTCCTGCTCATCAACTACTTCAGCTTCAGCTA
 CTGGTTCTTCGTGGGCTTGTCTGTTGTTGGACAGCTCTACCTTCGCTGGAAAGAGCCTGACTGGCCTCGA
 CCTCTCAAGCTGAGCCTCTTTTTTCCCATCGTGTCTGCGTCTGCTCCTGTTTCTGGTGCCGTACCCC
 TCTTCAGTGACACCATCAATTCCTCATTGGCATTGGGATTGCCCTCTCTGGGGTCCCTGTCTACTTCTT
 GGGTGTATACCTGCCAGAGTCCCGGAGACCACTCTTTATTAGGAATGTGCTGGCTACTGTACCAGAGTC
 ACCCAGAAGCTTTGCTTTTGCCTCTTACTGAGCTAGATGTAAGTGAAGAGAAAAATGTTGAGAGAAAA
 CTGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_178798

Insert Size: 1548 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_178798.3, NP_848913.1</u>
RefSeq Size:	3730 bp
RefSeq ORF:	1548 bp
Locus ID:	330836
UniProt ID:	<u>Q8BGK6</u>
Cytogenetics:	8 D3
Gene Summary:	Involved in the sodium-independent uptake of dibasic amino acids and sodium-dependent uptake of some neutral amino acids. Requires coexpression with SLC3A2/4F2hc to mediate the uptake of arginine, leucine and glutamine. Also acts as an arginine/glutamine exchanger, following an antiport mechanism for amino acid transport, influencing arginine release in exchange for extracellular amino acids. Plays a role in nitric oxide synthesis via transport of L-arginine. Involved in the transport of L-arginine in monocytes. Reduces uptake of ornithine in retinal pigment epithelial cells (By similarity).[UniProtKB/Swiss-Prot Function]