

Product datasheet for **MC218961**

Slc1a6 (NM_009200) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a6 (NM_009200) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc1a6
Synonyms:	EAAT4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218961 representing NM_009200
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCAGCCACGGCAATAGTCTGTTCTGAGGGAGAGCGGTGCCGGTGGGGCTGTCTGCAGGGCCTGC
 AGGACAGCCTGCAGCAGAGAGCACTGCGCACGCGCTTGCCTGCAGACCATGACCCGAGAGCACGTGAG
 GCGCTTCTGCGCCGGAATGCCTTCATCTTGTCTCACAGTCAGCGCTGTGATCATTGGTGTGAGCTTGGCA
 TTTGCCTTGCGCCGTACCAGCTCTCTACCGCCAGATCAAGTACTTCTCCTTCTCCTGGTGGAGCTGCTCA
 TGAGGATGCTGCAGATGCTGGTGTACCCCTCATTGTCTCCAGCCTTGTACAGGTATGGCATCCCTGGA
 CAACAAGGCGACAGGGCGGATGGGAATGCGGGCAGCTGTGTACTACATGGTGACTACAGTCATTGCAGTT
 TTCATCGGCATCCTAATGGTTACCATCATACTCTGGGAAGGGCTCCAAGGAGGGGCTGCACCGTGAAG
 GCCGAATTGAGACTGTCCAACAGCTGATGCTTTCATGGACCTGGTCAGAAATATGTTTCCACCTAACCT
 TGTGGAGGCTGCTTCAAACAGTTAAAGACACAGTACAGCACAGAGTGGTGACAAGGACAATTGTAAGG
 ACAGACAATGGTTCAGAGCTGGGGCCTCCATGTCTCCACATCCTCAGTAGAAAATGAAACCAGCATCC
 TGGAAAATGTCACCCGGGCTTGGGCACCTGCAGGAGGTGATAAGCTTTGAGGAGACTGTGCCTGTACC
 TGGCTCAGCCAATGGCATCAATGCCTTGGGCCTTGTGGTCTTCTCTGTGGCCTTTGGGCTGGTCATTGGT
 GGCATGAAGCACAAAGGCCGTGCTCTGAGGGACTTCTTTGACAGCCTCAATGAGGCTATTATGAGGCTGG
 TGGGCATCATCATCTGGTATGCACCAGTGGGCATCCTGTTCTGATTGCTGGAAGATTCTGAAATGGA
 AGACATGGCTGTCCTTGGAGTCACTGGGCATGTACACACTGACTGTATCGTTGGCTTATTCCTTCAT
 GCTGGTGGTGTGTTGCCCTTATCTACTTCTCGTCACCCATCGGAACCCCTTCCCTTCATTGGTGGTA
 TGCTACAGGCACTCATCACAGCTATGGTACCTTCCAGCTCTGCAACTCTGCCTATCACTTTCGCTG
 CCTGGAGGAGGGCCTGGGTGTGGATCGTCGCATACCAGGTTCTGTCTGCCTGTGGGGCCACTGTCAAC
 ATGGATGGCACTGCACTCTACGAGGCTTGGCAGCCATCTTTATTGCTCAAGTCAACAACACTATGAGCTCA
 ACCTTGGTCAAGTACCACAATCAGCATCACAGCCACAGCTGCCAGCGTAGGAGCAGCTGGCATCCCCCA
 GGCAGGACTGGTTACCATGGTATTGTGCTCACATCCGTCGGCCTGCCACAGAGGACATCACACTGATC
 ATAGCTGTGGATTGGTTCCTTGACCGACTTCGTACAATGACCAATGTACTGGGGATTGATTGGAGCGG
 CTGTCAATTGAGCATTGTCCCAACGGGAGCTGGAGCTGCAGGAGGCTGAGCTGACTCTACCCAGCCTGGG
 GAAACCTATAAGTCACTCATGGCACAAGAAAAGGGGCATCAAGGGTCTGGGGAGGTAATGAGAGCGTC
 ATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_009200
Insert Size: 1686 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
Components:	<p>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).</p>
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:	NM_009200.3 , NP_033226.1
RefSeq Size:	2089 bp
RefSeq ORF:	1686 bp
Locus ID:	20513
UniProt ID:	O35544
Cytogenetics:	10 39.72 cM
Gene Summary:	<p>Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:9379843). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion. Mediates Cl(-) flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport (By similarity). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (Probable).[UniProtKB/Swiss-Prot Function]</p>