

Product datasheet for **MC218960**

Slc1a2 (NM_011393) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a2 (NM_011393) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc1a2
Synonyms:	1700091C19Rik; 2900019G14Rik; AI159670; Eaat2; GLT-1; GLT1; MGLT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218960 representing NM_011393
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCAGTGCCAACAATATGCCAAGCAGGTAGAAGTGGCGATGCATGACAGCCACCTCAGCTCCGATG
 AGCCAAAGCACCGAAACCTGGGCATGCGCATGTGCGACAAGCTGGGGAAAAATCTCCTGCTCACTGAC
 TGTGTTTGGTGTATCCTGGGAGCAGTGTGGCGGGCTGCTTCGCTTGGCATCGCCATCCACCCTGAT
 GTGGTCATGTTGATAGCCTTCCCGGGGACATACTCATGAGGATGCTGAAGATGCTCATCTCCCTCTTA
 TCATCTCCAGTTAATCACAGGGTTGTCAGGCCTGGATGCTAAAGCCAGCGGCCCTAGGCACGAGAGC
 TATGGTGTATTACATGTCCACGACCATCATTGCCGCCGTGCTGGGGTTCATCCTGGTGTGGCCATCCAC
 CCAGGCAATCCCAAACCTCAAGAAGCAGCTAGGGCCCGGAAGAAGAACGACGAGGTGTCTAGCCTGGATG
 CCTTCTGGATCTCATTAGAAATCTTCCCGGAGAACCTGGTGAAGCCTGTTCCAGCAGATTACAGC
 AGTGACAAAGAAAGTTCTGGTGGCACCTCCATCTGAGGAGGCCAATACCACCAAGCGGTCATCTCCATG
 TTGAATGAAACCATGAACGAGGCCCTGAAGAACTAAGATCGTTATCAAGAAGGCCTGGAGTTCAAGG
 ACGGGATGAACGTCTTAGGTCTGATCGGATTTTATTGCTTTCGGCATTGCCATGGGGAAGATGGGTGA
 ACAGGCCAAGCTGATGGTGGAGTTCTTCAACATTCTGAATGAGATCGTGATGAAGTTAGTGATCATGATC
 ATGTGGTACTCCCTCTGGGTATCGCCTGCTTGATTTGTGGGAAGATCATCGCCATCAAGGACTTAGAAG
 TGGTTGCTAGGCAGCTGGGGATGTACATGATCACCGTATCGTGGGCCTCATCATTACGGGGGCATCTT
 TCTCCCTTGATTTACTTGTAGTGACCAGAAAAATCCATTCTCCTTTTTTGTGGCATATCCAAGCC
 TGGACTACTGCTCTGGAACTGCTTCCAGTGTGGAACCTTGCCTGTTACCTCCGTTGCTTGGAAAGATA
 ATCTAGGGATTGACAAGCGTGTGACCAGATTTCCTCCAGTCGGAGCAACCATTAAACATGGATGGCAC
 AGCCCTTTACGAGGCTGTGGCAGCCATCTTCATAGCCCAAATGAATGGGGTCATCTTGGATGGAGGTCAG
 ATTGTGACTGTAAGCCTTACAGCCACCCTGGCGAGCATTGGTGCAGCCAGTATCCAGCGCCGGGCTGG
 TCACCATGCTCCTCATTCTCACAGCTGTGGCCTGCCAACGGAGGATATCAGTCTGCTGGTGGCGGTGGA
 CTGGCTGCTGGATAGAATGAGAACTTCAATGATGTTGGTGGCGATTCTTTGGGGCTGGGATTGTCTAT
 CACCTTTCAAGTCTGAGCTGGACACCATTTGACTCCCAACACCGAATGCAGGAAGACATCGAAATGACCA
 AGACGCAGTCCATTTACGACGACAAGAACCACAGGAAAGCAACTCTAATCAGTGTGTCTATGCCGCACA
 CAACTCTGTCGTAATAGATGAGTGCAAGGTACCTTTCCATTCTGGATATCGAGACCTGCATATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_011393
- Insert Size:** 1677 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_011393.2](#), [NP_035523.1](#)

RefSeq Size: 2127 bp

RefSeq ORF: 1677 bp

Locus ID: 20511

UniProt ID: [P43006](#)

Cytogenetics: 2 54.13 cM

Gene Summary: Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:7698742, PubMed:7557442, PubMed:9373176). 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). Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate (PubMed:9180080).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' and 3' ends (UTR and coding sequence) compared to variant 1. The resulting isoform (3) has shorter and distinct N- and C-termini compared to 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.