

Product datasheet for **MC219173**

Slc1a2 (NM_001077514) Mouse Untagged Clone

Product data:

| | |
|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Slc1a2 (NM_001077514) 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: >MC219173 representing NM_001077514
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATCAACAGAGGGTGCCAACAATATGCCAAGCAGGTAGAAGTGGCGATGCATGACAGCCACCTCA
 GCTCCGATGAGCCAAAGCACCGAAACCTGGGCATGCGCATGTGCGACAAGCTGGGGAAAAATCTCCTGCT
 CTCACTGACTGTGTTGGTGTATCCTGGGAGCAGTGTGTGGCGGGCTGCTTCGCTTGGCATCGCCCATC
 CACCCTGATGTGGTCATGTTGATAGCCTTCCCGGGGACATACTCATGAGGATGCTGAAGATGCTCATCC
 TCCCTCTATCATCTCCAGTTTAAACACAGGGTTGTCAGGCCTGGATGCTAAAGCCAGCGGCCCGCTAGG
 CACGAGAGCTATGGTGTATTACATGTCCACGACCATTGCGCGCGTGTGGGGTTCATCTGGTGTG
 GCCATCCACCCAGGCAATCCAAACTCAAGAAGCAGCTAGGGCCCGGAAGAAGAACGACGAGGTGTCTA
 GCCTGGATGCCTTCTGGATCTCATTAGAAATCTTCCCGGAGAACCTGGTGAAGCCTGTTCCAGCA
 GATTGAGACAGTGACAAAGAAAGTTCTGGTGGCACCTCCATCTGAGGAGGCCAATACCACCAAGGCGGTC
 ATCTCCATGTTGAATGAAACCATGAACGAGGCCCTGAAGAAACTAAGATCGTTATCAAGAAGGGCCTGG
 AGTTCAAGGACGGGATGAACGTCTTAGGTCTGATCGGATCTTTATTGCTTTCGGCATTGCCATGGGGAA
 GATGGGTGAACAGGCCAAGCTGATGGTGGAGTTCTTCAACATTCTGAATGAGATCGTGATGAAGTTAGTG
 ATCATGATCATGTGGTACTCCCCCTGGGTATCGCCTGCTTGATTTGTGGGAAGATCATCGCCATCAAGG
 ACTTAGAAGTGGTTGCTAGGCAGCTGGGGATGTACATGATCACCGTGATCGTGGGCTCATCATTACGG
 GGGCATCTTCTCCCCTTGATTTACTTTGTAGTGACCAGAAAAATCCATTCTCCTTTTTTGTGGCATA
 TTCCAAGCCTGGATCACTGCTCTGGAACTGCTCCAGTGTGGAACCTTGCCTGTACCTCCGTTGCT
 TGGAGATAATCTAGGGATTGACAAGCGTGTGACCAGATTCGTCCTCCAGTCGGAGCAACCATTAACT
 GGATGGCACAGCCCTTTACGAGGCTGTGGCAGCCATCTTCATAGCCCAAATGAATGGGGTATCTTGAT
 GGAGGTACAGATTGTGACTGTAAGCCTTACAGCCACCCTGGCGAGCATTGGTGCAGCCAGTATCCACGCG
 CCGGGCTGGTACCATGCTCCTCATTCTCACAGCTGTGGGCTGCCAACGGAGGATATCAGTCTGCTGGT
 GGCGGTGGACTGGCTGCTGGATAGAATGAGAACTTCAGTCAATGTGGTGGGCGATTCTTTTGGGGCTGGG
 ATTGTCTATCACCTTTCCAAGTCTGAGCTGGACACCATTGACTCCCAACACCGAATGCAGGAAGACATCG
 AAATGACCAAGACGCAGTCCATTTACGACGACAAGAACCAGGGAAAGCAACTTAATCAGTGTGTCTA
 TGCCGCACACAACCTGTGCGTAATAGATGAGTGAAGGTAACCTCTGGCGGCCAATGGAAAGTCAGCTGAC
 TGCAGTGTGAGGAAGAACCTTGGAAACGTGAAAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001077514

Insert Size: 1719 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_001077514.3](#), [NP_001070982.1](#)

RefSeq Size: 11571 bp

RefSeq ORF: 1719 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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.