

## Product datasheet for **RN216929**

### **Slc1a2 (NM\_001302089) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc1a2 (NM_001302089) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc1a2
Synonyms:	Eaat2; Glt; Glt-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN216929 representing NM\_001302089  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCAGTGCCAACAATATGCCCAAGCAGGTGGAAGTGGCATGCACGACAGCCACCTCAGCTCCGAGG  
 AGCCAAAGCACCGAAACCTGGGCATGCGCATGTGCGACAAGCTGGGGAAGAACCTCTGCTCACTGAC  
 TGTGTTTGGTGTATCCTGGGAGCAGTATGTGGCGGGCTGCTTCGCTTGGCGGCTCCCATCCACCCTGAT  
 GTGGTCATGTTGATAGCCTTCCCGGGGACATCCTCATGAGGATGCTGAAGATGCTCATCTCCCTCTCA  
 TCATTTCCAGTCTCATCACAGGGCTGTCAGGGCTGGATGCTAAAGCCAGCGGCCCTAGGCACGAGAGC  
 CATGGTATATTACATGTCCACGACCATCATTGCCGCTGTGCTGGGGTTCATCCTGGTGTGGCCATCCAC  
 CCTGGGAATCCCAAACCTCAAGAAGCAGCTGGGGCTGGGAAGAAGAAGCAGAGGTGTCCAGCCTGGATG  
 CCTTCTGGATCTCATTAGAAATCTTCCCGGAGAACCTGGTACAAGCCTGTTTCCAACAGATTACAGC  
 TGTGACAAAGAAAGTTCTGGTGGCACCTCCATCCGAGGAGCCAAACAACAAGGCAGTCATCTCCCTG  
 TTGAATGAGACCATGAATGAGGCCCTGAAGAACTAAGATCGTTATCAAGAAGGCCTGGAGTTCAAGG  
 ACGGGATGAATGTCTTAGGTCTGATTGGATTCTTTATTGCTTTCGGCATTGCCATGGGGAAGATGGGTGA  
 GCAGGCCAAGCTGATGGTGGAGTTCTTCAACATTCTGAACGAGATTGTCATGAAGTTAGTGATCATGATC  
 ATGTGGTATTCCCGCTGGGTATCGCCTGCTTGATCTGTGGGAAGATCATCGCCATCAAGGACTTAGAAG  
 TGGTTGCTAGGCAGCTGGGGATGTACATGATCACAGTATCGTGGGCCTCATTCATGGGGGCATCTT  
 TCTCCCCTTGATTTACTTGTAGTGACCAGAAAAACCCATTCTCCTTTTTTGTGGCATTTCCTCAAGCC  
 TGGACTACTGCCCTGGGAACCGCTCCAGTGTGGAACCTTGCCTGTACCTCCGTTGCTTGGAAAGATA  
 ATCTAGGGATTGACAAGCGTGTGACCAGATTCTCCTCCAGTCGGAGCAACCATTAAACATGGATGGTAC  
 AGCCCTTTACGAAGCCGTGGCAGCCATCTTCATAGCCAGATGAATGGGGTCATCCTGGATGGAGGTCAG  
 ATAGTGACTGTAAGCCTTACAGCAACTCTGGCAGCATTGGTGCAGCCAGTATTCCAGCGCCGGGTTGG  
 TCACCATGCTCCTCATTCTCACAGCTGTGGCCTGCCGACAGAGGACATCAGTCTGCTGGTGGCAGTGGA  
 CTGGCTGCTGGATAGAATGAGAACTTCGGTCAATGTAGTGGGCGATTCTTTGGGGCTGGGATTGTCTAT  
 CACCTTTCCAAGTCCGAGCTGGACACCATTGACTCCCAACACCGAATGCACGAAGACATCGAAATGACCA  
 AGACGCAGTCCATTTATGACGACACGAAGAACCACAGGAAAGCAACTCTAATCAGTGTGCTATGCCGC  
 ACACAACCTGTGCGTAATAGATGAGTGAAGTAACTCTGGCGGCCAATGGAAAGTCAGTGACTGCAGT  
 GTTGAGGAAGAACCTTGGAAACGTGAAAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001302089
- Insert Size:** 1713 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001302089.1](#), [NP\\_001289018.1](#)

**RefSeq Size:** 1817 bp

**RefSeq ORF:** 1713 bp

**Locus ID:** 29482

**UniProt ID:** [P31596](#)

**Cytogenetics:** 3q32

**Gene Summary:** mediates dihydrokainate-sensitive glutamate transport; may play a role in presynaptic terminal glutamate transport and synaptic transmission [RGD, Feb 2006]  
Transcript Variant: This variant (3) has an alternate 5' terminal exon, compared to variant 1. The resulting isoform (c) has a shorter and distinct N-terminus, compared to isoform a.