

## Product datasheet for **RN200383**

### **Slc1a2 (NM\_001035233) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc1a2 (NM_001035233) 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



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**Fully Sequenced ORF:** >RN200383 representing NM\_001035233  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCATCAACCGAGGGTGCCAACAATATGCCAAGCAGGTGGAAGTGGCGATGCACGACAGCCACCTCA  
 GCTCCGAGGAGCCAAAGCACCGAAACCTGGGCATGCGCATGTGCGACAAGCTGGGGAAGAACCTCCTGCT  
 CCACTGACTGTGTTGGTGTATCCTGGGAGCAGTATGTGGCGGCTGCTTCGCTTGGCGGCTCCCATC  
 CACCCTGATGTGGTCATGTTGATAGCCTTCCCGGGGACATCCTCATGAGGATGCTGAAGATGCTCATCC  
 TCCCTCTCATCATTTCCAGTCTCATCACAGGGCTGTCAGGGCTGGATGCTAAAGCCAGCGGCCCTAGG  
 CACGAGAGCCATGGTATATTACATGTCCACGACCATTGCCGCTGTGCTGGGGTTCATCTGGTGTG  
 GCCATCCACCCTGGGAATCCAAACTCAAGAAGCAGCTGGGGCTGGGAAGAAGAACGACGAGGTGTCCA  
 GCCTGGATGCCTCCTGGATCTCATTAGAAATCTTCCCGGAGAACCTGGTACAAGCCTGTTTCCAACA  
 GATTCAGACTGTGACAAAGAAAGTTCTGGTGGCACCTCCATCCGAGGAGGCAATACAACCAAGGCAGTC  
 ATCTCCCTGTTGAATGAGACCATGAATGAGGCCCTGAAGAAACTAAGATCGTTATCAAGAAGGGCTGG  
 AGTTCAAGGACGGGATGAATGTCTTAGGTCTGATTGGATTCTTTATTGCTTTCGGCATTGCCATGGGAA  
 GATGGGTGAGCAGGCCAAGCTGATGGTGGAGTTCTTCAACATTCTGAACGAGATTGTCATGAAGTTAGTG  
 ATCATGATCATGTGGTATCCCCGCTGGGTATCGCCTGCTTGTATCTGTGGGAAGATCATCGCCATCAAGG  
 ACTTAGAAGTGGTTGCTAGGCAGCTGGGGATGTACATGATCACAGTATCGTGGGCTCATCATTATGG  
 GGGCATCTTCTCCCCTTGATTTACTTTGTAGTGACCAGAAAAACCCATTCTCCTTTTTTGGTGGCATT  
 TTCCAAGCCTGGATCACTGCCCTGGGAACCGCTTCCAGTGTGGAACCTTGCCTGTCACCTCCGTTGCT  
 TGGAAAGATAATCTAGGGATTGACAAGCGTGTACCAGATTCGTCTCCAGTCCGAGCAACCATTAACAT  
 GGATGGTACAGCCCTTTACGAAGCCGTGGCAGCCATCTTCATAGCCAGATGAATGGGGTATCCTGGAT  
 GGAGGTACAGATAGTACTGTAAGCCTTACAGCAACTCTGGCGAGCATTGGTGCAGCCAGTATCCACGCG  
 CCGGGTTGGTCACCATGCTCCTCATTCTCACAGCTGTGGGCTGCCGACAGAGGACATCAGTCTGCTGGT  
 GGCAGTGGACTGGCTGCTGGATAGAATGAGAACTTCGGTCAATGTAGTGGGCGATTCTTTTGGGCTGGG  
 ATTGTCTATCACCTTTCAAGTCCGAGCTGGACACCATTGACTCCCAACACCGAATGCACGAAGACATCG  
 AAATGACCAAGACGCAGTCCATTTATGACGACACGAAGAACCACAGGAAAGCAACTCTAATCAGTGTGT  
 CAATGCCGCACAACTCTGTCGTAATAGATGAGTGCAAGGTACCTTTCCATTCTGGATATCGAGACC  
 TGCATATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001035233

**Insert Size:** 1689 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\\_001035233.1](#), [NP\\_001030310.1](#)

**RefSeq Size:** 2229 bp

**RefSeq ORF:** 1689 bp

**Locus ID:** 29482

**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 (2) differs in the 3' coding region and 3' UTR compared to variant 1. The resulting protein (isoform b) is shorter and has a distinct C-terminus compared to isoform a.