

## Product datasheet for **RN203125**

### **Slc1a3 (NM\_019225) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc1a3 (NM_019225) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc1a3
Synonyms:	EAAT1; GLAST; GLAST-1; GluT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN203125 representing NM\_019225  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACAAAAAGCAACGGAGAAGAGCCCAGGATGGGAAGCAGGATGAAAGATTCCAGCAAGGGGTGCGCA  
AGCGGACGCTCCTGGCCAAGAAGAAAGTTCAGAACATCACCAAGGAGGATGTGAAGAGCTACCTGTTTCG  
GAATGCCTTTGTGCTACTCACCGTCAGCGCTGTCAATTGTGGGTACAATCCTTGGATTTGCCCTCCGACCG  
TATAAAATGAGCTACCGGGAGGTCAAGTACTTCTCCTTTCCTGGGGAGCTTCTGATGCGGATGCTGCAGA  
TGTTGGTCTTACCCTGATCATCTCCAGTCTTGTACAGGAATGGCGGCCCTAGATAGTAAGGCATCTGG  
GAAGATGGGGATGCGAGCTGTGGTCTATTACATGACTACCACCATCATTGCTGTGGTGTGCGCATAATC  
ATTGTCATCATCATCCACCCCGAAAGGGCACGAAAGAAAACATGTACAGAGAAGGTAATAATCGTGCAGG  
TGACTGCCGAGATGCCTTCTGGATTTAATCAGGAACATGTTCCACCCAATCTGGTAGAAGCCTGCTT  
TAAACAGTTTAAAACCAGCTATGAGAAGAGAAGCTTTAAAGTGCCCATCCAGGCCAACGAAACACTGTTG  
GGCGCCGTGATCAACAAGTGTACAGAGGCCATGGAGACTCTGACCCGGATCCGGGAGGAGATGGTACCCG  
TTCTGGGTCTGTGAATGGGGTCAATGCCTGGGCCTCGTTGTCTTCTCCATGTGCTTCGGCTTCGTGAT  
CGGAAACATGAAGGAGCAGGGGCAAGCGCTAAGAGAGTTCCTCGACTCTCTCAATGAAGCCATCATGAGA  
TTGGTAGCGGTGATAATGTGGTATGCACCTCTGGGCATCCTCTTCTTGTATCGCAGGGAAGATTGTTGAGA  
TGGAAGATATGGGTGTGATTGGGGGACAGCTTGCCATGTATACAGTGACAGTCACTCGTCCGCCTCCTCAT  
TCATGCCGTATCGTCTGCCTCCTCTACTTCTGTAACCCGGAAGAACCCCTGGGTTTTATTGGA  
GGGTTGCTGCAAGCACTCATCACAGCCCTGGGGACCTCCTCAAGTCTGCCACCCTGCCCATCATTCA  
AGTGCCCTGGAAGAAAACAATGGTGTGGACAAACGCATCACAGATTGTGCTTCCCGTGGGGGCCACCAT  
TAACATGGATGGGACCGCCCTACGAGGCTTTGGCCGCCATTTTCATCGCTCAAGTTAACAACCTTGAC  
CTGAATTTTGGACAGATTATAACAATAAGTATCACAGCCACAGCCGCAAGCATTGGGGCAGCTGGCATT  
CTCAGGCCGCTAGTACCATGGTCACTGTGCTGACATCTGTGGCCTGCCACGGATGACATCACACT  
CATCATTGCAGTGGACTGGTTTCTGGACCCCTCCGAACCACCACCAACGTGCTGGGTGACTCCCTCGGG  
GCCGGATTGTTGAACACTTGTCCCGACATGAAGTGAAGAACCGAGATGTTGAAATGGGGAACCTCGTGA  
TTGAGGAGAATGAAATGAAAAGCCGTATCAGCTGATTGCCAGGACAATGAACCAGAGAAACCCGTGGC  
AGACAGCGAAACCAAGATGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja3171\\_d11.zip](https://cdn.origene.com/chromatograms/ja3171_d11.zip)

Restriction Sites: SgfI-MluI

ACCN: NM\_019225

Insert Size: 1632 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_019225.2](#), [NP\\_062098.1](#)

**RefSeq Size:** 3922 bp

**RefSeq ORF:** 1632 bp

**Locus ID:** 29483

**UniProt ID:** [P24942](#)

**Cytogenetics:** 2q16

**Gene Summary:** carries out Na<sup>+</sup> dependent transport of glutamate and aspartate; may regulate neurotransmitter concentration in the central nervous system [RGD, Feb 2006]  
 Transcript Variant: This variant (Glast) represents the longest transcript and encodes the longest isoform (1).