

Product datasheet for **RN216794**

Slc1a3 (NM_001289942) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a3 (NM_001289942) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Slc1a3
Synonyms:	EAAT1; GLAST; GLAST-1; GluT-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN216794 representing NM_001289942
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAAAAAGCAACGGAGAAGAGCCAGGATGGGAAGCAGGATGGAAAGATTCCAGCAAGGGGTGCGCA
 AGCGGACGCTCCTGGCCAAGAAGAAAGTTCAGAACATCACCAAGGAGGATGTGAAGAGCTACCTGTTTCG
 GAATGCCTTTGTGCTACTCACCGTCAGCGCTGTCAATTGTGGGTACAATCCTTGGATTGCGCCTCCGACCG
 TATAAAATGAGCTACCGGGAGGTCAAGTACTTCTCCTTCTGGGGAGCTTCTGATGCGGATGCTGCAGA
 TGTTGGTCTTACCCTGATCATCTCCAGTCTTGTACAGGAATGGCGGCCCTAGATAGTAAGGCATCTGG
 GAAGATGGGGATGCGAGCTGTGGTCTATTACATGACTACCACCATCATTGCTGTGGTGATCGGCATAATC
 ATTGTCATCATCATCCACCCCGAAAGGGCACGAAAGAAAACATGTACAGAGAAGGTAATCGTGCAGG
 TACTGCCGAGATGCCTTCTGGATTTAATCAGGAACATGTTCCACCCAATCTGGTAGAAGCCTGCTT
 TAAACAGTTTAAAACCAGCTATGAGAAGAGAAGCTTTAAAGTGCCCATCCAGGCCAACGAAACACTGTTG
 GCGGCCGTGATCAACAACGTGTCAGAGGCCATGGAGACTCTGACCCGGATCCGGGAGGAGATGGTACCCG
 TTCTGGGTCTGTGAATGGGGTCAATGCCTGGGCCTCGTTGTCTTCTCCATGTGCTTCCGCTTCGTGAT
 CGGAAACATGAAGGAGCAGGGGCAAGCGCTAAGAGAGTCTTTCGACTCTCTCAATGAAGCCATCATGAGA
 TTGGTAGCGGTGATAATGTGGTATGCACCTCTGGGCATCCTCTTCTTGTGATCGCAGGGAAGATTGTTGAGA
 TGGAAGATATGGGTGTGATTGGGGGGCAGCTTGCCATGTATACAGTGACAGTCACTCGTCCGCCTCCTCAT
 TCATGCCGTATCGTCTGCCTCTCCTACTTCTGGTAACCCGGAAGAACCCCTGGGTTTTATTGGA
 GGGTTGCTGCAAGCACTCATCACAGCCCTGGGGACCTCCTCAAGTCTGCCACCCTGCCATCAGTTTCA
 AGTGCCTGGAAGAAAACAATGGTGTGGACAAACGCATCACCAGATTTGTGCTTCCCGTGGGGGCCACCAT
 TAACATGGATGGGACCGCCTCTACGAGGCTTTGGCCGCCATTTTCATCGCTCAAGTTAACAACCTTTGAC
 CTGAATTTTGGACAGATTATAACAATAAGGGACCGCCTCCGAACCACCACCAACGTGCTGGGTGACTCCC
 TCGGGGCCGGATTGTTGAACACTTGTCCCGACATGAACTGAAGAACCGAGATGTTGAAATGGGGAACCT
 CGTGATTGAGGAGAATGAAATGAAAAGCCGTATCAGCTGATTGCCAGGACAATGAACCAGAGAAAACCC
 GTGGCAGACAGCGAAACCAAGAT**GTAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289942
- Insert Size:** 1497 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_001289942.1](#), [NP_001276871.1](#)

RefSeq Size: 3797 bp

RefSeq ORF: 1497 bp

Locus ID: 29483

UniProt ID: [P24942](#)

Cytogenetics: 2q16

Gene Summary: carries out Na⁺ dependent transport of glutamate and aspartate; may regulate neurotransmitter concentration in the central nervous system [RGD, Feb 2006]
Transcript Variant: This variant (Glast1b) lacks an alternate in-frame exon in the 3' coding region, compared to variant Glast. The encoded protein (isoform 3) is shorter, compared to isoform 1.