

Product datasheet for **RN216790**

Slc1a3 (NM_001289941) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a3 (NM_001289941) 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



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Fully Sequenced ORF: >RN216790 representing NM_001289941
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAAAAAGCAACGGAGAAGAGCCCAGGATGGGAAGCAGGATGAAAGATTCCAGCAAGGGGTGCGCA
 AGCGGACGCTCCTGGCCAAGAAGAAAGTTCAGAACATCACCAAGGAGGATGTGAAGAGCTACCTGTTTCG
 GAATGCCTTTGTGCTACTCACCGTCAGCGCTGTCATTGTGGGAATGGCGGCCCTAGATAGTAAGGCATCT
 GGAAGATGGGGATGCGAGCTGTGGTCTATTACATGACTACCACCATCATTGCTGTGGTATCGGCATAA
 TCATTGTCATCATCATCCACCCCGAAAGGGCACGAAAGAAAACATGTACAGAGAAGGTAATAATCGTGCA
 GGTGACTGCCGAGATGCCTTCTGGATTTAATCAGGAACATGTTCCACCCAATCTGGTAGAAGCCTGC
 TTTAAACAGTTTAAAACCAGCTATGAGAAGAGAAGCTTTAAAGTGCCATCCAGGCCAACGAAACTGT
 TGGGCGCCGTGATCAACAACGTGTAGAGGCCATGGAGACTCTGACCCGGATCCGGGAGGAGATGGTACC
 CGTTCCTGGGTCTGTGAATGGGGTCAATGCCCTGGGCCTCGTTGTCTTCCATGTGCTTCGGCTTCGTG
 ATCGGAAACATGAAGGAGCAGGGCAAGCGCTAAGAGAGTTCTTCGACTCTCTCAATGAAGCCATCATGA
 GATTGGTAGCGGTGATAATGTGGTATGCACCTCTGGGCATCCTCTTCTGATCGCAGGGAAGATTGTTGA
 GATGGAAGATATGGGTGTGATTGGGGGGCAGCTTGCCATGTATACAGTGACAGTCATCGTCGGCCTCCTC
 ATTCATGCCGTATCGTCTGCCTCTCCTACTTCTGGTAACCCGGAAGAACCCTGGGTTTTTCATTG
 GAGGGTTGCTGCAAGCACTCATCACAGCCCTGGGGACCTCTCAAGTTCTGCCACCCTGCCATCACTTT
 CAAGTGCTGGAAGAAAACAATGGTGTGGACAAACGCATCACCAGATTTGTGCTTCCCGTGGGGGCCACC
 ATTAACATGGATGGGACCGCCCTACGAGGCTTTGGCCGCCATTTTCATCGCTCAAGTTAACAACTTTG
 ACCTGAATTTTGGACAGATTATAACAATAAGTATCACAGCCACAGCCGCAAGCATTGGGGCAGCTGGCAT
 TCCTCAGGCCGGTCTAGTCACCATGGTTCATCGTCTGACATCTGTGGGCCTGCCACGGATGACATCACA
 CTCATCATTGCAGTGGACTGGTTTCTGGACCGCTCCGAACCACCACCAAGTGTGGTACTCCCTCG
 GGGCCGGGATTGTTGAACACTTGTCCCACATGAACTGAAGAACCAGATGTTGAAATGGGAACTCCGT
 GATTGAGGAGAATGAAATGAAAAAGCCGTATCAGCTGATTGCCAGGACAATGAACCAGAGAAAACCCGTG
 GCAGACAGCGAAACCAAGAT**GTAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289941
- Insert Size:** 1494 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_001289941.1](#), [NP_001276870.1](#)

RefSeq Size: 3805 bp

RefSeq ORF: 1494 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 (Glast1a, PMID:11086157) lacks an alternate in-frame exon in the 5' coding region, compared to variant Glast. The encoded protein (isoform 2) is shorter, compared to isoform 1.