

## Product datasheet for RN216654

### Slc1a3 (NM\_001289943) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc1a3 (NM\_001289943) 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  
**Fully Sequenced ORF:** >RN216654 representing NM\_001289943  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACAAAAGCAACGGAGAAGAGCCCAGGATGGGAAGCAGGATGGAAAGATTCCAGCAAGGGGTGCGCA  
 AGCGGACGCTCCTGGCCAAGAAGAAAGTTCAGAACATCACCAAGGAGGATGTGAAGAGCTACCTGTTTCG  
 GAATGCCTTTGTGCTACTCACCGTCAGCGCTGTCATTGTGGGTACAATCCTTGGATTTGCCCTCCGACCG  
 TATAAAATGAGCTACCGGAGGTCAAGTACTTCTCCTTTCTGGGGAGCTTCTGATGCGGATGCTGCAGA  
 TGGTGGTCTTACCCTGATCATCTCCAGTCTTGTACAGGAATGGCGGCCCTAGATAGTAAGGCATCTGG  
 GAAGATGGGGATGCGAGCTGTGGTCTATTACATGACTACCACCATCATTGCTGTGGTGATCGGCATAATC  
 ATTGTCATCATATCCACCCCGAAAGGGCAGCAAAGAAAACATGTACAGAGAAGGTAAAATCGTGCAGG  
 TGACTGCCGAGATGCCTTCTGGATTTAATCAGGTATGCACCTCTGGGCATCCTCTTCTTGATCGCAGG  
 GAAGATTGTTGAGATGGAAGATATGGGTGTGATTGGGGGGCAGCTTGCCATGTATACAGTGACAGTCATC  
 GTCGGCCTCCTCATTATGCCGTCATCGTCTGCCTCCTCTACTTCTGGTAACCCGGAAGAACCCT  
 GGGTTTTTCATTGGAGGGTTGCTGCAAGCACTCATCACAGCCCTGGGGACCTCCTCAAGTTCTGCCACCT  
 GCCCATCACTTTCAAGTGCCTGGAAGAAAACAATGGTGTGGACAACGCATCACCAGATTTGTGCTTCCC  
 GTGGGGGCCACCATTAACATGGATGGGACCGCCCTCTACGAGGCTTTGGCCGCCATTTTCATCGCTCAAG  
 TTAACAACTTTGACCTGAATTTTGGACAGATTATAACAATAAGTATCACAGCCACAGCCGCAAGCATTGG  
 GGCAGCTGGCATTCTCAGGCCGGTCTAGTCACCATGGTTCATCGTGTGACATCTGTGGGCTGCCACG  
 GATGACATCACACTCATCATTGCAGTGGACTGGTTTCTGGACCGCTCCGAACCACCACCAACGTGCTGG  
 GTGACTCCCTCGGGCCGGGATTGTTGAACACTTGTCGGACATGAACTGAAGAACCAGATGTTGAAAT  
 GGGGAACCTCCGTATTGAGGAGAATGAAATGAAAAGCCGTATCAGCTGATTGCCAGGACAATGAACCA  
 GAGAAACCGTGGCAGACAGCAAACCAAGATG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001289943
<b>Insert Size:</b>	1296 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001289943.1</a></u> , <u><a href="#">NP_001276872.1</a></u>
<b>RefSeq Size:</b>	3596 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	29483
<b>UniProt ID:</b>	<u><a href="#">P24942</a></u>
<b>Cytogenetics:</b>	2q16
<b>Gene Summary:</b>	<p>carries out Na<sup>+</sup> dependent transport of glutamate and aspartate; may regulate neurotransmitter concentration in the central nervous system [RGD, Feb 2006]</p> <p>Transcript Variant: This variant (Glast1c, PMID:22026960) lacks two alternate in-frame exons in the coding region, compared to variant Glast. The encoded protein (isoform 4) is shorter, compared to isoform 1.</p>