

## Product datasheet for **MG224891**

### Slc1a6 (NM\_009200) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a6 (NM_009200) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc1a6
Synonyms:	EAAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224891 representing NM\_009200  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCAGCCACGGCAATAGTCTGTTCTGAGGGAGAGCGGTGCCGGTGGGGCTGTCTGCAGGGCCTGC  
 AGGACAGCCTGCAGCAGAGAGCACTGCGCACGCGCTTGCCTGCAGACCATGACCCGAGAGCACGTGAG  
 GCGCTTCTGCGCCGGAATGCCTTCATCTTGTCTCACAGTCAGCGCTGTGATCATTGGTGTGAGCTTGGCA  
 TTTGCCTTGCGCCGTACCAGCTCTCTACCGCCAGATCAAGTACTTCTCCTTCTCCTGGTGTGAGCTGCTCA  
 TGAGGATGCTGCAGATGCTGGTGTACCCTCATTGTCTCCAGCCTTGTACAGGTATGGCATCCCTGGA  
 CAACAAGGCGACAGGGCGGATGGGAATGCGGGCAGCTGTGTACTACATGGTGACTACAGTCATTGCAGTT  
 TTCATCGGCATCCTAATGGTTACCATCATACTCCTGGGAAGGGCTCCAAGGAGGGGCTGCACCGTGAAG  
 GCCGAATTGAGACTGTCCAACAGCTGATGCTTTCATGGACCTGGTCAGAAATATGTTTCCACCTAACCT  
 TGTGGAGCCTGCTTCAAACAGTTTAAACACAGTACAGCACAGAGTGGTGACAAGGACAATTGTAAGG  
 ACAGACAATGGTTCAGAGCTGGGGCCTCCATGTCTCCACATCCTCAGTAGAAAATGAAACCAGCATCC  
 TGGAAAATGTCACCCGGGCTTGGGCACCTGCAGGAGGTGATAAGCTTTGAGGAGACTGTGCCTGTACC  
 TGGCTCAGCCAATGGCATCAACGCCCTTGGGCCTTGTGGTCTTCTCTGTGGCCTTTGGGCTGGTCATTGGT  
 GGCATGAAGCACAAAGGCCGTGCTCTGAGGGACTTCTTTGACAGCCTCAATGAGGCTATTATGAGGCTGG  
 TGGGCATCATCATCTGGTATGCACCAAGTGGGCATCCTGTTCTGATTGCTGGAAGATTCTGAAATGGA  
 AGACATGGCTGTCCTTGGAGGTCAGTGGGCATGTACACACTGACTGTATCGTTGGCTTATTCCTTCAT  
 GCTGGTGGTGTGTTGCCCTTATCTACTTCTCGTCACCCATCGGAACCCCTTCCCTTCATTGGTGGA  
 TGCTACAGGCATCATCACAGCTATGGTACTCTTCCAGCTCTGCAACTCTGCATATCCTTCCGCTG  
 CCTGGAGGAGGGCCTGGGTGTGGATCGTCGCATACCAGGTTCTGTGCCTGTGGGGCCACTGTCAAC  
 ATGGATGGCACTGCACTCTACGAGGCCCTTGGCAGCCATCTTTATTGCTCAAGTCAACAACACTATGAGCTCA  
 ACCTTGGTCAGATCACCACAATCAGCATCACAGCCACAGCTGCCAGCGTAGGAGCAGCTGGCATCCCCCA  
 GGCAGGACTGGTTACCATGGTATTGTGCTCACATCCGTCGGCCTGCCACAGAGGACATCACACTGATC  
 ATAGCTGTGGATTGGTTCCTTGACCGACTTCGTACAATGACCAATGTACTGGGGATTGATTGGAGCGG  
 CTGTCATTGAGCATTGTCCCAACGGGAGCTGGAGCTGCAGGAGGCTGAGCTGACTCTACCCAGCCTGGG  
 GAAACCTATAAGTCACTCATGGCACAAGAAAAGGGGCATCAAGGGTCTGGGGAGGTAATGAGAGCGTC  
 ATG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224891 representing NM\_009200  
 Red=Cloning site Green=Tags(s)

MSSHGNSLFLRESGAGGGCLQGLQDSLQQRALRTRLRLQTMTRHVRRFLRRNAFILLTVSAVIIIGVSLA  
 FALRPYQLSYRQIKYFSFPGELLMRMLQMLVLPPLIVSSLVGMSASLDNKATGRMGMRAAVYVMVTVIAV  
 FIGILMVTIIHPGKGSKEGLHREGRIETVPTADAFMDLVRNMFPPNLVEACFKQFKTQYSTRVVRTIVR  
 TDNGSELGASMSPTSSVENETSILENTRALGTLQEVISFEETVPVPGSANGINALGLVVFVAFGLVIG  
 GMKHKGRVLRDFDLSNEAIMRLVGIIWYAPVGILFLIAGKILEMEDMAVLGGQLGMYTLTVIVGLFLH  
 AGGVLPLIYFLVTHRNPFPFIGGMLQALITAMGTSSSSATLPITFRCLEEGLGVDRRITRFVLPVGATVN  
 MDGTALYEALAAIFIAQVNNYELNLGQITTSITATAASVGAAGIPQAGLVTMVIIVLTSVGLPTEDITLI  
 IAVDWFLDRLRTMTNVLGDSIGAAVIEHLSQRELELQEAELTLPSTLGPYKSLMAQEKGASRGRGGNESV  
 M

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_009200.3</a>, <a href="#">NP_033226.1</a></p>
<b>RefSeq Size:</b>	<p>2089 bp</p>
<b>RefSeq ORF:</b>	<p>1686 bp</p>
<b>Locus ID:</b>	<p>20513</p>
<b>UniProt ID:</b>	<p><a href="#">O35544</a></p>
<b>Cytogenetics:</b>	<p>10 39.72 cM</p>
<b>Gene Summary:</b>	<p>Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:9379843). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion. Mediates Cl(-) flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na(+) symport (By similarity). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (Probable).[UniProtKB/Swiss-Prot Function]</p>