

## Product datasheet for **MG208859**

### Slc1a7 (NM\_146255) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a7 (NM_146255) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc1a7
Synonyms:	A930031E15Rik; Eaat5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208859 representing NM\_146255  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGTCTGACGCTGTCTGGCTCGAGGGCGCACAGTGTGAAGCACACGGGCTGCTCATCTGTCTG  
 TGCTCTCTGTCATCGTGGGCTGCCTCCTTGGCTTCTTCCCTCAGGACCCAGCGCCTCTCACCACAGGAGAT  
 TAGTTACTTCCAGTTCCTGGAGAACTCTTGATGCGGATGCTGAAGATGCTGATCCTACCACTGGTGGTC  
 TCCAGCTTGATGTCGGCCTTGCCTCCCTGGATGCCAAGACCTCCAGCCGCTTGGGGATCCTCACCGTGG  
 CATACTACCTGTGGACTACCTTTCTGGCTGTTGTTGTGGGCATCATCATGGTCTCCATCATCCACCTGG  
 TGGTGCAGCACAGAAGGAGACAACCTGAACAGAGTGAAAGCCGGTCATGAGCTCAGCTGATGCCCTCTG  
 GATCTTGTCCGGAACATGTTCCAGCCAACCTGGTAGAAGCCACGTTCAAACAGTACCGCACCAAGACCA  
 CCCCAGTTATCAAGTCTCCAGGGGAGCAGCGGAGGAGGCTCCCCGGCGGATCGTCATCTATGGGTCCA  
 GGAAGACAATGGCTCACGTGTGCAAGCTTTGCCCTGGATCTGACGCCCCACCTGAGATTGTCTACAAG  
 TCAGAGCCTGGTACCAGTGTGGATGAACGTGCTAGGCATTGTCATCTTCTCAGCCACGATGGGTATCA  
 TGCTGGGCGCATGGGTGACAGCGGGACGCCCTGGTCAGCTTCTGTGAGTGCCTTAATGAGTCTGTGAT  
 GAAGATCGTGGCAGTGGCAGGGTGGTACTTTCCCTTTGGCATTGTCTTCTGATCGCTGGCAAGATCTTG  
 GAGATGGATGACCCCAAGGCAGTGGGAAAAAGCTGGGCTTCTACGCCGTGACTGTGGTTTGTGGGCTGG  
 TGGTCCACGGTCTCCTCATCCTGCCCTACTGTACTTCTCATACCAAGAAGAACCCCATCGTCTTCAT  
 CCGAGGCGTCTCCAGGCTCTGCTATTGCGTTGGCCACCTCTCCAGCTCAGCCACACTGCCATCACC  
 TTCAAGTGCCTGCTGGAGAACAACCATATCGACCGCCGCATCGCTCGCTTCGTGCTGCCTGTGGCGCCA  
 CCATCAACATGGATGGCACCAGCTCTACGAGGCGGTGGCTGCCATCTTATCGCCCAAGTCAACAACCA  
 TGAGTAGACTTTGGACAGATCATCACTATCAGCATCACGGCCACGGCAGCCAGCATTGGGCGGCTGGC  
 ATCCCCAGCGGGGCTCGTCACCATGGTCATCGTGTGCTCACCTCTGTGGGACTGCCGACCGATGACATCA  
 ACCTCATCATAGCTGTAGACTGGGCACTGGATCGCTTCCGAACCATGATTAATGTGCTGGGTGATGCACT  
 GGCGGCAGGGATCATGGCCACATCTGCCGAAGGATTTTGTGCTCAGGACATGGGCACTGAGAAAATTGCTA  
 CCCTGTGAGACCAAGCCAGTGCAGTGCAGGAGATCGTGGCTGCCAGCAGAATGGCTGTGTGAAGAGTG  
 TGGCTGAGGCTCAGAGCTAACCTGGGCCCCACGTGCCCCACCATCCAGTCCAGGTAGAGCAGGA  
 TGAGGATCCAGCCGCTGCCAGCTAGACCCTGTACTATTGAGATCAGTGAAGTGTAGAGCAACCTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208859 representing NM\_146255  
 Red=Cloning site Green=Tags(s)

MVLDAVLARGRTVCKHNGLLILSVLSVIVGCLLGFLLRTRQLSPQEISYFQFPGELLMRMLKMLILPLVV  
 SSLMSGLASLDAKTSSRLGILTVAYYLWTTFLAVVVGIIIMVSIHHPGAAQKETTEQSGKPMSSADALL  
 DLVRNMFANLVEATFKQYRKTTPVIKSPRGAAEEAPRRIVIYGVQEDNGSRVQNFALDLTPPEIVYK  
 SEPGTSDGMNVLGIVIFSATMGIMLGRMGDSGTPLVSFCQLNESVMKIVAVAGWYFPFGIVFLIAGKIL  
 EMDDPKAVGKGLGFYAVTVVCGLVVHGLLILPLLYFLITKKNPIVFIRGVLQALLIALATSSSSATLPIT  
 FKCLLENNHIDRRIRARFVLPVGATINMDGTALYEAVAAIFIAQVNNYELDFGQIITISITATAASIGAA  
 IPQAGLVTMIVILTSVGLPTDDINLIIAVDWALDRFRMTINVLGDALAAGIMAHICRKFDAQDMGTEKLL  
 PCETKPVTLQEIIVAAQQNGCVKSVAEASELTLGPTCPHHIPVQVEQDEDPAAASLDHCTIEISELETNV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_146255
<b>ORF Size:</b>	1677 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_146255.3</a>
<b>RefSeq Size:</b>	3032 bp
<b>RefSeq ORF:</b>	1710 bp
<b>Locus ID:</b>	242607
<b>UniProt ID:</b>	<a href="#">Q8JZR4</a>
<b>Cytogenetics:</b>	4 C7
<b>Gene Summary:</b>	Transports L-glutamate; the L-glutamate uptake is sodium- and voltage-dependent and chloride-independent. Its associated chloride conductance may participate in visual processing (By similarity).[UniProtKB/Swiss-Prot Function]