

## Product datasheet for **MG207394**

### Slc38a7 (NM\_172758) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a7 (NM_172758) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc38a7
Synonyms:	D430050E18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207394 representing NM\_172758  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCCAGGTACAGCATCAACAGTACTACAGCGCGAGTGGGCTTCCAGCACTGATGCTGGGGAGCGGG  
 CCCGTTTCTCCAAAGTCCCTGTGTGGACGTGGTACCTAAGAGTGAGGGGAGGGCTCTCCTGGAGATCC  
 AGACAGCGGCACCACTTCGACCCTTGGAGCCGTCTTCATCGTCGCAATGCCTGCCTCGGTGCGGGTCTG  
 CCAACTTCCCAGCAGCCTTCAGCACTGCTGGGGCGTGGCAGCTGGCATCGCCCTGCAGATGGGCATGC  
 TGGTTTTATCATCAGTGGGCTGGTCACTTCTGGCCTACTGCTCTCAAGCCAGCAATGAGAGGACCTACCA  
 GGAGGTGGTGTGGCCGTGTGTGCAAGCTGACAGGTGTGCTGTGTGAGGTAGCCATTGCGGTCTATACC  
 TTCGGAACCTGCATCGCCTTCTCATATTGGGGACCAGCAGGACAAGATTATAGTTGTGATGTCGA  
 AGGAGCCGGATGGGGCCAGCGCCAGCCCTGGTACACAGACCGCAAGTTCACCATCAGTCTTACCGCCTT  
 CCTCTTATCCTGCCCTGTCCATCCCCAAGGAGATTGGCTTCCAGAAATATGCCAGCTTCTGAGCGTC  
 GTGGGCACCTGGTACGTACCGCCATTATAATCATCAAATACATCTGGCCAGATAAAGAGATGCGCCCGG  
 GGGACATCTTGACTAGACCAGCGTCTGGATGGCTGTGTTCAACGCCATGCCACCATCTGCTTTGGATT  
 TCAGTGTGATGTGAGTAGTGTACCCGTCTTCAACAGCATGCGGCAGCCGAAAGTAAAGACCTGGGGCGGA  
 GTGGTGACGGCTGCCATGGTCAAGCTCTGGCTGTCTACATGGGCACAGGCATCTGTGGCTTCTAACCT  
 TTGGAGCTGTGTGGACCCGACGTGCTCCGGTCTACCCTCAGAGGACGTGGCTGTGGCCGTTGCCCG  
 AGCCTTATCATCCTGAGTGTGCTACCTCTTATCCCATCCTGCCTTCTGTGGCGGGCTGTGGTGGAA  
 GGCCTGTGGCTGCGCTACAAGGGGATGCCCGTGGAGGAGATGTGGCCGGGAGCGCCGGCGCCGGTCC  
 TGCAGACGCTGGTGTGGTCTGCTAACCTTACTGCGCTCTTATCCCTGACATTGGCAAGGTCAT  
 CTCGGTATCGGAGGCCGTCAGCCTGCTTCTCATCTTCCAGGGCTGTGCCTCATTCAAGCCAAA  
 CTATCAGAGATGGAGGAGGTCAAACCTGCCAGCTGGTGGCACTGGTCAGTTACGGAGTCTTCTGGTCA  
 CATTGGGAGCCTTCTTCCGCCAGACCAGCCAATGCCATTTTTGTGGATCTCTTGGCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207394 representing NM\_172758  
 Red=Cloning site Green=Tags(s)

MAQVSINSDYSGEWASSTDAGERARLLQSPCVDVVPKSEGEASPGDPDSTLSTLGAVFIVVNAACLGAGL  
 LNFPAAFSTAGGVAAGIALQMGMLVFIIISGLVILAYCSQASNERTYQEVVAVCGKLTGVLCEVAIAVYT  
 FGTCIAFLIIIGDQDKIIVVMSKEPDGASGSPWYDRKFTISLTAFLFILPLSIPKEIGFQKYASFLSV  
 VGTWYVTAIIIIKYIWPDKEMRPGDILTRPASWMAVFNAMPTICFGFQCHVSSVPVFNMSMRQPEVKTWGG  
 VVTAAMVIALAVYMGTCIGFLTFGAAVDPDLRSYPSDEVAVAVARAFIILSVLTSYPILHFCGRAVVE  
 GLWLRKYGMPVEEDVGRERRRRVLQTLVWFLLLTLLALFIPDIGKVISVIGGLAACFIFIFPGLCLIQAK  
 LSEMEEVKPASWWALVSYGVLLVTLGAFIFGQTTANAIFVDLLA

**TRTRPLE** - GFP Tag - V

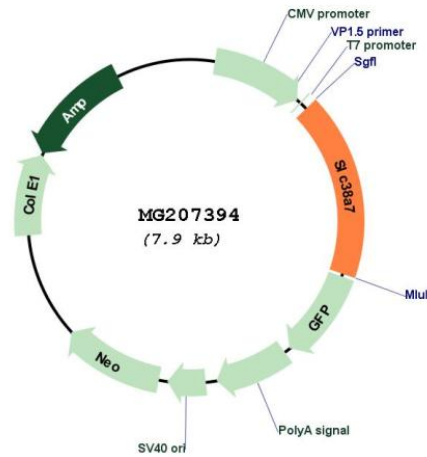
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_172758

ORF Size: 1389 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: 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>	<u><a href="#">NM_172758.1</a></u> , <u><a href="#">NP_766346.1</a></u>
<b>RefSeq Size:</b>	3282 bp
<b>RefSeq ORF:</b>	1392 bp
<b>Locus ID:</b>	234595
<b>UniProt ID:</b>	<u><a href="#">Q8BWH0</a></u>
<b>Cytogenetics:</b>	8 D1
<b>Gene Summary:</b>	Mediates sodium-dependent transport of amino acids. Substrate preference is ranked l-glutamine > l-histidine > l-serine > l-alanine > l-asparagine > l-aspartic acid > l-glutamic acid > l-methionine > l-leucine > l-glycine.[UniProtKB/Swiss-Prot Function]