

## Product datasheet for **MG216321**

### Slc38a5 (NM\_172479) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a5 (NM_172479) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc38a5
Synonyms:	C81234; E330031E14; JM24; SN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216321 representing NM\_172479  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCATTTTCATGCGCTGTGGGATGGAAATGCAGGAACCAAGATGAATGGAACCTCTCTCGGGTG  
 CTGCTGCGGGCTACAGGCAGGAACGCGAAGGCTTCCTGCCACCAACCCGTAACCCCTGCTACTGGGAGGAA  
 ACCTGTCCAGTTCTTGGATTTCGAGGGGAAGACATCATTTCGGAATGTCAGTGTTCAACCTCAGCAACGCT  
 ATCATGGGGAGTGGCATCCTGGGACTGGCTTATGCCATGGCACACACTGGAGTCATCTTCTTTTGGCC  
 TGCTGCTGTGCATTGCTCTCCTGTCTTCTACTCCATTACCTCCTGCTGACCTGTGCCAGTGTTGTAGG  
 CATCCGTGCCTATGAGCAGCTGGGACAGAGGGCATTGGACCTGCCGGGAAAGTAGTCGTGGCCATCATC  
 ATCTGTCTGCACAACGTTGGGGCTATGTCCAGTTACCTGTTTCATCATCAAATCTGAACTCCCCCTTGTTA  
 TTGGCACCTTCTGCACATGGACCTGAGGGAGACTGGTCTTGAAGGGGAATCTCCTTATCATCCTGGT  
 CAGCTTGTAAATCATCTTGCCCTGGCTCTCATGAAACACCTGGGCTACCTGGGGTACACAAGCAGCCTC  
 TCCTGACCTGCATGCTGTTTTTCTCATTTCGGTCATCTATAAGAAAGTCCAGATTGGCTGTGATGTGA  
 GCCACAATGACACAGTAGTGGAGGCTGAACAAGCTCCTTTCAGGCGTTAACAGCAGCTGCGAGGCCGA  
 GCTCTTACCGTTGACTCGCAGATGTCTTACACAGTGCCTATTATGGCTTTGCGTTTGTCTGCCACCT  
 GAGGTGCTGCCCATCTACACAGAAGTTTGGCGCCCAACCCAGCGCAGGATGCAAGCTGTGGCCAACATGT  
 CCATCGGAGCTATGTTTCATGATGACTCACAGCGACCTTTGGATACCTCACCTTCTACAGCACTGT  
 GAAGGCAGAGATGCTGGAATGTACACCCAGGAGGACATGCTTATCCTTTGTGTGCGTCTGGCCGACTG  
 CTTGCAGTAACCTCACTGTGCCTGTTGTGCTTTCCCTATCCGCGAGCCCTCCAGCAGCTGCTCTTTC  
 CAAGCAAGGCCTTCAGCTGGCTACGCCATGTGGCCATTGCCTTGATTCTGCTTATTCTGGTCAATATCT  
 CGTCATCTGTGTGCCAACCATCCGCGATATCTTTGGGTTTATTGGGTCCACTTCAGCCCCCTAGCCTCATC  
 TTCATCCTTCCCAGTGTCTTCTACCTCCGTATTGTACCTACTGAGGTGGAACCTTTGTTTTCTGGCCCA  
 AGATCCAGGCCCTGTGCTTTGGTGTCTGGGAGTCTCTTCATGGCCATCAGCCTGGGCTTCATGTTTGC  
 CAACTGGGCCACAGGCCAGCCGATGTCTGGCCAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216321 representing NM\_172479  
 Red=Cloning site Green=Tags(s)

MAISCAVGMEMQEPKMNGLSAGAAAGYRQEREGFLPTRNPATGRKPVQFLDFEGKTSFGMSVFNLSNA  
 IMGSGILGLAYAMAHTGVIFFLALLLCIALSSYSIHLLLTCSVVGIRAYEQLGQRAFPGPKVVAII  
 ICLHNVGAMSSYLFIKSELPLVIGTFLHMDPEGDWFLKGNLLIILVSLIILPLALMKHLGYLGYTSSL  
 SLTCLMFFLISVIYKFKQIGCDVSHNDTVVEAEQAPLQAFNSSCEAELFTVDSQMSYTPVIMAFVCHP  
 EVLPIYTELCRPTQRRMQAVANMSIGAMFIMYGLTATFGYLTFTYSTVKAEMLEMYTQEDMLILCVRLAVL  
 LAVTLTVPVFLFPIRRALQQLLFPKAFSWLRHVAIALILLILVNILVICVPTIRDFGFIGSTSAPSLI  
 FILPSVFLRIVPTEVEPLFSWPKIQALCFGVLGVLFMALSLGFMFANWATGQSRMSGH

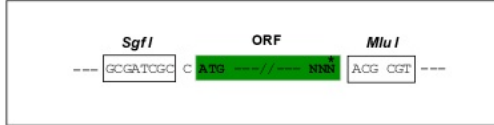
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

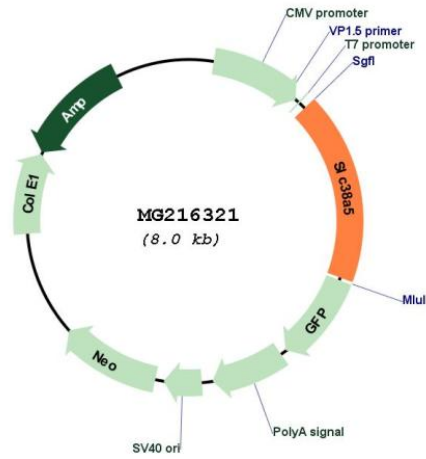
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_172479  
 ORF Size: 1437 bp

<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_172479.3</a>, <a href="#">NP_766067.2</a></p>
<b>RefSeq Size:</b>	<p>1857 bp</p>
<b>RefSeq ORF:</b>	<p>1440 bp</p>
<b>Locus ID:</b>	<p>209837</p>
<b>UniProt ID:</b>	<p><a href="#">Q3U1J0</a></p>
<b>Cytogenetics:</b>	<p>X A1.1</p>
<b>Gene Summary:</b>	<p>Functions as a sodium-dependent amino acid transporter which countertransport protons. Mediates the saturable, pH-sensitive, and electrogenic cotransport of several neutral amino acids including glycine, asparagine, alanine, serine, glutamine and histidine with sodium (By similarity).[UniProtKB/Swiss-Prot Function]</p>