

## Product datasheet for **MG208352**

### **Slc18a1 (NM\_153054) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc18a1 (NM_153054) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc18a1
Synonyms:	4832416I10Rik; Vat1; Vmat1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208352 representing NM\_153054  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCCAGTTGTTCTGGGTGCTCCTCAGCGACTGCTGAAGGAAGGAGGCAGTCCCGGAAGCTGGTGT  
 TGGTCGTGGTGTGGTCTACTCCTGGACAATATGCTGCTCACTGTGGTGGTCCCATTGTGCCAC  
 CTTCTGTATGCGACAGAGTTCAAAGACATCAACTCTTCTGCTTAGGGTCTTCTGTAAGCTCCAG  
 CAAGCTCTCACCTCTCCTGCCTTCTTACCACCTTCTCCTTTTTGACAACACCACCATGACTGTAGAAG  
 AACATGTACCTTTTCGTGTAGCATGGATAAATGGTACCATCCCTCCTCCAGTACCAGGAGCTGGCTCAGT  
 ACCTAAAAACAACCTGCTTGAAGGGATAGAGTTCTTGAAGAAGAAAATGTCCGGATTGGGATTCTATTT  
 GCTTCAAAGGCTTTGATGCAACTTCTGGTTAACCCATTTGTAGGACCTTACTAACAGGATTGGCTATC  
 ACATCCCCATGTTTGTGGCTTTATGATCATGTTTCTCTCCACACTAATGTTTGTCTTCTGGCACCTA  
 TGCCCTGTGTTTGTGGCCGAACCTCCAAGGCATTGGATCTTCATTTTCATCTGTTGCAGGGCTTGGG  
 ATGCTGGCCAGTGTCTATACGGATAACTACGAGAGAGGAAGAGCCATGGGAATTCGTTTGGGGGGCTGG  
 CTTTGGGACTTCTGGTGGGAGCACCTTTTGAAGTGTGATGTATGAATTTGTGGGCAAGTCTCACCATT  
 CCTCATCTTGGCCTTCTGGCACTTCTGGATGGAGCTCTCCAGTTTTGCATCCTATGGCCTTCGAAAGTG  
 TCTCCTGAGAGTGCCATGGGGACTCCACTTTTGACACTTCTCAAAGATCCTTACATTTTGGTAGCAGCAG  
 GTTCCATCTGCCTGGCCAACATGGGAGTCGCCATATTAGAGCCCACGCTACCCATCTGGATGATGCAGAC  
 CATGTGTTCCCGGAGTGGCAGCTAGGTCTGGCTTTTTACCTGCCAGTGTGGCTACCTCATTGGCAGC  
 AACCTTTTTGGTGTGTTGGCCAACAAGATGGGTGGTGGCTGTGCTCCCTTGTGGAATGGTAGCTGTAG  
 GTATCAGCTTGTCTGTGTACCTCTGGCTCACAATATTTTTGGTCTTATTGGACCAATGCAGGCCTTGG  
 CTTTGCCATAGGCATGGTGGATTCTCTCTGATGCCCATCATGGGATACCTGGTGGACTTACGCCATACC  
 TCTGTGTATGGGAGTGTCTACGCCATCGCTGATGTGGCTTTTTGTGGGCTTGTCTATTGGCCATCTA  
 CCGGGGTGTTATTGTACCGGTATCGGCTTCCCTGGCTCATGGTATCATTGGAACATCAACATCAT  
 CTATGCCCTCTCTGCTCTTCTGCAGAACCCACCAGCTAAGGAGGAGGAGCTTGAATTCTGAACCGAG  
 GAATGCCCCACAGAGACCCAGATGTACACAATCCAGAGGCCACGAAGGAGTTTCCACTGGGAGAGAACA  
 GCGATGATCCTGGCAGTGGAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208352 representing NM\_153054  
 Red=Cloning site Green=Tags(s)

MFQVVLGAPQRLKKEGRQSRKLVLVVVFVALLLDNMLLTVVVPVIVPTFLYATEFKDINSSLLRGPVSSQ  
 QALTSPAFSTTF SFFDNTTMTVEEHVPRVAVINGTIPPPVTEAGSVPKNNCLQIEFLEEENVRIGILF  
 ASKALMQLLVNPFVGPLNTRIGYHIPMFVGFIMFLSTLMFAFSGTYALLFVARTLQIGSSFSSVAGLG  
 MLASVYTDNYERGRAMGIALGGLALGLLVGAPFGSVMYEFVKGSSPFLILAFLLLDGALQFCILWPSKV  
 SPESAMGTPLLTLKDPYILVAAGSICLANMGVAILEPTLPIWMMQTMCSPEWQLGLAFLPASVAYLIGT  
 NLFVGLANKMGRWLSLVGMVAVGISLLCVPLAHNIFGLIGPNAGLGF AIGMVDSLSLMPIMGYLVDLRHT  
 SVYGSVYAIADVAFVGF AIGPSTGGVIVPVIGFPWLMVIIGTINIYAPLCCFLQNPPEEELAILNQ  
 ECPTETQMYTIQRPTKEFPLGENSDDPGSEE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<b>ACCN:</b>	NM_153054
<b>ORF Size:</b>	1563 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_153054.1</a>
<b>RefSeq Size:</b>	3118 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	110877
<b>UniProt ID:</b>	<a href="#">Q8R090</a>
<b>Cytogenetics:</b>	8 33.88 cM
<b>Gene Summary:</b>	Involved in the transport of biogenic monoamines, such as serotonin, from the cytoplasm into the secretory vesicles of neuroendocrine and endocrine cells.[UniProtKB/Swiss-Prot Function]