

## Product datasheet for **MG217057**

### Slc36a1 (NM\_153139) Mouse Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Slc36a1
<b>Synonyms:</b>	5830411H19Rik; A1839897; Pat1
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG217057 representing NM\_153139  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGTCCACACAGAGGCTTCGGAACGAAGACTATCATGACTACAGTTCACAGACGTGAGCCCCGAGGAGA  
 GCCCATCTGAAGGCTTGGCAGCTTCTCCCCGGCTCTACCAACGCTTAGGAGAGAACAGTAGCATGAC  
 ATGGTTCACAGACCTGATCCACCTGCTGAAAGGCAACATTGGCACCAGGACTGCTGGGGCTGCCTCTGGCA  
 GTGAAGAACGCAGGCCTCTGTTGGGTCTCTCAGCCTGCTGGTGATTGGTATCGTGGCCGTGACTGCA  
 TGGGTATCCTGGTGAAGTGTGCTCATCACTTATGTGCTAGACTGAACAAACCCTTTTGGACTATGGGGA  
 CACGGTGATGATGGACTAGAATGCAGCCCCAGCACCTGGGTCCGGAACCACTCCCACTGGGGAAGGCGC  
 ATCGTGGACTTCTTCTCATCGTCACTCAGCTGGGATTCTGCTGTGTCTACTTCGTGTTTCTGGCGGACA  
 ACTTTAAGCAGGTGATAGAGGCAGCCAATGGGACCACCACCAACTGCAACAACAATGTGACCGTGATCCC  
 GACGCCACCATGGACTCTGACTCTACATGCTCTCCTTCTGCCCTTCTGGTGTGCTGTCTTTCATC  
 AGGAACCTGCGTGTGTTGCCATCTTCTCCCTGCTGGCCAACATCAGCATGTTGCTCAGCCTGATCATGA  
 TATACCAGTTCATTGTCCAGAGGATCCCAGACCCAGCCACCTCCCTTGGTGGCTCCATGGAAGACCTA  
 CCCTCTGTTCTTGGCACAGCGATTTTGTCTTTGAAGGCATTGGAGTGGTCTACCCCTTGAGAACAAA  
 ATGAAGGACTCACAGAAATTTCCATTGATTCTGTATTTGGGGATGGCTATCATCACTGTACTCTACATCA  
 GCCTGGGGAGCCTGGGTACCTGCAATTTGGAGCTAATATCAAGGGCAGCATACCCTCAACCTGCCCAA  
 CTGCTGGTGTACCAAGTGGTGAAGCTGCTGTACTCCATAGGCATCTTCTTACCTATGCCCTCCAGTTC  
 TATGTCGACGTGAGATCATCATCCCGCCATTGTGTCCGAGTGCCTGAGCATTTGAGCTGATGGTGG  
 ACCTTTGTGTGCGCACCCCATGGTCTGTGTGACATGTGTGCTGGCCATCCTCATCCACGCTGGACCT  
 GGTCATCTCCCTGGTGGCTCTGTGAGCAGCAGCGCCCTGGCCCTCATCATCCCGCCCTGCTGGAGGTG  
 GTCACCTACTATGGAGAGGGCATTAGCCCCCTGACCGTCACCAAGGATGCCCTCATCAGCATCCTGGGCT  
 TCGTGGGCTTCGTGGTGGGACCTACGAGTCTCTGTGTGAGCTGATCCAGCCAAGCCATAGCGACTCCT  
 TACCAATCCACCAGTGCCTTCATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG217057 representing NM\_153139  
 Red=Cloning site Green=Tags(s)

MSTQRLRNEDYHDYSSTDVSPSESPSEGLGSFSPGSYQRLGENSSMTWFQTLIHLLKGNIGTLLGLPLA  
 VKNAGLLLGLPLLIVIGIVAVHCMGILVKCAHLLCRRLNKPFLDYGDTVMYGLECSPSTWVRNHSWGRR  
 IVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTTNCNNVTVIPTPTMDSRLYMLSFLPFLVLLSFI  
 RNLRLVLSIFSLLANISMFVSLIMIQFIVQRIPDPSHLPLVAPWKTYPLFFGTAFIFAFEGIGVVLPLENK  
 MKDSQKFPILILYLGMAIITVLYISLGLGYLQFGANIKGSITLNLNPNCWLYQSVKLLYSIGIFFTYALQF  
 YVAEEIIPAIIVSRVPEHFELMVDLCVRTAMVCVLCVLAAILIPRLDLVISLVGSVSSALALIIPPLLEV  
 VTYYGEGISPLTVTKDALISILGFVGFVVGTYESLCELIQPSHSDSSTNSTSAFI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_153139

**ORF Size:** 1425 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.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_153139.4](#), [NP\\_694779.3](#)

RefSeq Size: 5280 bp

RefSeq ORF: 1428 bp

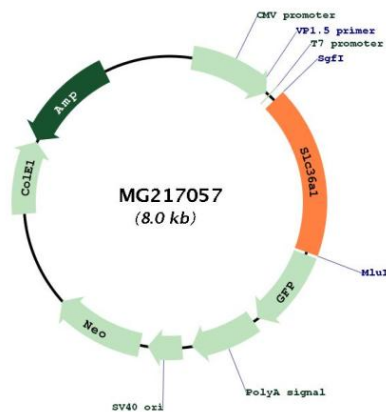
Locus ID: 215335

UniProt ID: [Q8K4D3](#)

Cytogenetics: 11 B1.3

**Gene Summary:** Neutral amino acid/proton symporter. Has a pH-dependent electrogenic transport activity for small amino acids such as glycine, alanine and proline. Besides small apolar L-amino acids, it also recognizes their D-enantiomers and selected amino acid derivatives such as gamma-aminobutyric acid.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG217057