

Product datasheet for **MG218244**

Slc36a4 (NM_172289) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc36a4 (NM_172289) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc36a4
Synonyms:	6330573I15Rik; PAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218244 representing NM_172289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCGCCGGCGCCGGGAGACGGCGGGATGCGAGGAGCTCGATATGGACGTGATGAGGCCCTTAA
 TAAACGAGCAGAATTCGATGGGTCTGCCGACGAGGAGCAGGAACAGACGCTTGTGCCCATACAGAAGCA
 CTACCAGCTCGATGGGCAGCACGGGATTCGTTCTGCAGACCTTGGTGCATCTTCTCAAGGGGAACATC
 GGGACTGGCCTTTTAGGGCTCCCCTTGGCTATAAAGAACGCGGGCATCGTGCTTGGACCAATCAGCCTTG
 TGTTTATAGGAATTATTTCCGTCCACTGTATGCACATATTGGTACGTTGCAGTCACTTTCTATGTCAGAG
 GTTTAAGAAGTCAACATTGGGGTACAGTGACACCGTGAGTTTTGCCATGGAGGCTAGTCCGTGGAGTTGC
 CTTCAGCGACAGGCAGCATGGGGCGGAGCGTGGTCGACTTCTTCTGGTGATAACAGCTGGGATTCT
 GCAGCGTCTACATTGTCTTCTTAGCTGAGAATGTGAAACAGGTTTCATGAAGGATTCCTGGGAGCACGCC
 GATTGTTTCAAATGGCTCGGACCTGTCTATGCCTGTGAGAGAAGAAGTGTGGACCTCAGGTCTATATG
 CTCTGCTTCTCCCACTTATAATTCTTGGTCTTCATTCGCGAGCTGAAGAATCTCTTTGACTTTTCAT
 TCCTTGCCAACATTTCCATGGCTGCCAGTCTTGTGATAATTTACCAAGTATGTTGTTAGGAACATGCCAGA
 TCCCCACAACCTTCCAATAGTGGCCGGCTGGAAGAAATACCCACTGTTTTTTGGCACTGCTGTGTTTGT
 TTTGAAGGCATAGGAGTGGTGTCTACCACTGGAAAACCAATGAGAGAGTCCAAACGCTTCCCTCAGGCAT
 TGAACATCGGCATGGCCATCGTCACCGTGTGTACATCAGCCTAGCCACTTAGGCTACATGTGTTTCCG
 TGACGAGATCAAAGGCAGCATTACACTGAATCTTCCCCAGGACATGTGGTGTATCAGTCAGTGAATTT
 CTGTATTCCTTTGGCATTTTTGTGACCTATTCAATTCAGTCTATGTCCCAGCAGAGATCATTATCCCTG
 GAGTCACTGCTAGACTTTCATGCCAAATGGAAGCGCATTGTGAATTTGGGATACGGTCCCTTTGGTTAG
 TATCACCTGTGCTGGGGGATTCTCATTCTCGCCTAGACATTGTGATCTCCTTGTGGGGCTGTGAGC
 AGCAGTACACTAGCCCTGATCCTGCCCCCACTTGTGAAAATCCTTACATTTTCTAAGGACCACTACAACA
 TATGGATGATCCTGAAAAACATTTCCATAGCGTTCAGTGGAGTCGTGGGCTTCTTGTGGGCACCTATGT
 CACTGTTGAAGAAATTTTATCCGACTACGGCAGTTGTTGCTGGCACCTCCAGAGTCCCTTTCTGAAT
 GTGAACCTACATGCATAACAAGTGGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218244 representing NM_172289
 Red=Cloning site Green=Tags(s)

MEAPAPAETAGCEELMDVMRPLINEQNF DGSSDEEQQLVPIQKHYQLDQGHGISFLQTLVHLLKGNI
 GTGLLGLPLAIKNAGIVLGPISLVFIGIISVHMHILVRCSHFLCQRFKKSTLGYSDTVSFAMEASPWSC
 LQRQAAWGRSVVDFFLVITQLGFCVYIVFLAENVKQVHEGFLGSTPIVSNGLSHACERRSVDLRVYM
 LCFPLIILLVFIKELKNLFLVLSFLANISMAASLVIIYQYVVRNMPDPHNLPIVAGWKYPLFFGTAVFA
 FEGIGVVLPLENQMRSEKRFQALNIGMAIVTVLYISLATLGYMCFRDEIKGSITLNLPMQMWLYQSVKI
 LYSFGIFVTYSIQFYVPAEIIIPGV TARLHAKWKRIEFGIRSLLVSITCAGAILIPRLDIVISFVGA
 VSSSTLALILPPLVEILTFKDHYNIMILKNISIAFTGVVGFLLGTYVTVEEIIYPTTAVVAGTSQSPFLN
 VNSTCITSGL

TRTRPLE - GFP Tag - V

Restriction Sites:

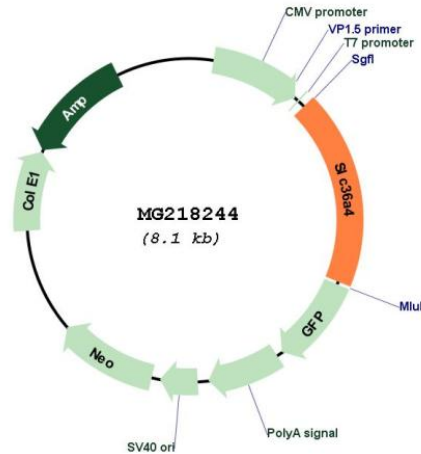
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_172289

ORF Size: 1500 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.

RefSeq: [NM_172289.5](#)

RefSeq Size: 1937 bp

RefSeq ORF: 1503 bp

Locus ID: 234967

UniProt ID: [Q8CH36](#)

Cytogenetics: 9 A2

Gene Summary: Functions as a sodium-independent electroneutral transporter for tryptophan, proline and alanine.[UniProtKB/Swiss-Prot Function]