

Product datasheet for **MR218244**

Slc36a4 (NM_172289) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc36a4 (NM_172289) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc36a4
Synonyms:	6330573I15Rik; PAT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR218244 representing NM_172289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCGCCGGCGCCGGGAGACGGCGGGATGCGAGGAGCTCGATATGGACGTGATGAGGCCCTTAA
 TAAACGAGCAGAATTTTCATGGGTCTGCCGACGAGGAGCAGGAACAGACGCTTGTGCCCATACAGAAGCA
 CTACCAGCTCGATGGGCAGCACGGGATTTCTGCTCAGACCTTGGTGCATCTTCTCAAGGGAAACATC
 GGGACTGGCCTTTTAGGGCTCCCCTTGGCTATAAAGAACGCGGGCATCGTCTGGACCAATCAGCCTTG
 TGTTTATAGGAATTATTTCCGTCCACTGTATGCACATATTGGTACGTTGCAGTCACTTTCTATGTCAGAG
 GTTTAAGAAGTCAACATTGGGGTACAGTGACACCGTGAGTTTTGCCATGGAGGCTAGTCCGTGGAGTTGC
 CTTCAGCGACAGGCAGCATGGGGCGGAGCGTGGTCGACTTCTTCTGGTGATAACAGCTGGGATTCT
 GCAGCGTCTACATTGTCTTCTTAGCTGAGAATGTGAAACAGGTTTCATGAAGGATTCCTGGGAGCACGCC
 GATTGTTTCAAATGGCTCGGACCTGTCTATGCCTGTGAGAGAAGAAGTGTGGACCTCAGGTCTATATG
 CTCTGCTTCTCCCACTTATAATTCCTTGGTCTTCATTCGCGAGCTGAAGAATCTCTTTGACTTTTCAT
 TCCTTGCCAACATTTCCATGGCTGCCAGTCTTGTGATAATTTACCAAGTATGTTGTTAGGAACATGCCAGA
 TCCCCACAACCTTCCAATAGTGGCCGGCTGGAAGAAATACCCACTGTTTTTGGCACTGCTGTGTTTGTCT
 TTTGAAGGCATAGGAGTGGTGTCTACCACTGGAAAACCAATGAGAGAGTCCAAACGCTTCCCTCAGGCAT
 TGAACATCGGCATGGCCATCGTACCCGCTGTACATCAGCCTAGCCACTTAGGCTACATGTGTTTCCG
 TGACGAGATCAAAGGCAGCATTACACTGAATCTTCCCAGGACATGTGGTGTATCAGTCAGTGAATTT
 CTGTATTCCTTTGGCATTTTTGTGACCTATTCAATTCAGTCTATGTCCCAGCAGAGATCATTATCCCTG
 GAGTCACTGCTAGACTTCATGCCAAATGGAAGCGCATTGTGAATTTGGGATACGGTCCCTTTGGTTAG
 TATCACCTGTGCTGGGGCGATTCTCATTCTCGCCTAGACATTGTGATCTCCTTGGTGGGGCTGTGAGC
 AGCAGTACACTAGCCCTGATCCTGCCCCCACTTGTGAAATCCTTACATTTTCTAAGGACCACTACAACA
 TATGGATGATCCTGAAAAACATTTCCATAGCGTTCAGTGGAGTCGTGGGCTTCTTGTGGGCACCTATGT
 CACTGTTGAAGAAATATTTATCCGACTACGGCAGTTGTTGCTGGCACCTCCAGAGTCCCTTTCTGAAT
 GTGAACCTACATGCATAACAAGTGGTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218244 representing NM_172289
 Red=Cloning site Green=Tags(s)

MEAPAPAETAGCEELDMDVMRPLINEQNF DGSSDEEQQLVPIQKHYQLDGQHGISFLQTLVHLLKGNIG
 GTGLLGLPLAIKNAGIVLGPISLVFIGIISVHMHILVRCSHFLCQRFKKSTLGYSDTVSFAMEASPWSC
 LQRQAAWGRSVVDFFLVITQLGFCVYIVFLAENVKQVHEGFLGSTPIVSNGLSHACERRSVDLRVYM
 LCFPLPIILLVFIKLNLFVLSFLANISMAASLVIIYQYVVRNMPDPHNLPIVAGWKYPLFFGTAVFA
 FEGIGVVLPLENQMRESKRFPQALNIGMAIVTVLYISLATLGYMCFRDEIKGSITLNLPMQMWLYQSVKI
 LYSFGIFVTYSIQFYVPAEIIIPGV TARLHAKWKRICEF GIRSLLV SITCAGAILIPRLDIVISFVGA
 VSSSTLALILPPLVEILTFKSDHYNIWMILKNISIAFTGVVGFLLGTYYVTVVEEIIYPTTAVVAGTSQSPFLN
 VNSTCITSGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_d09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



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

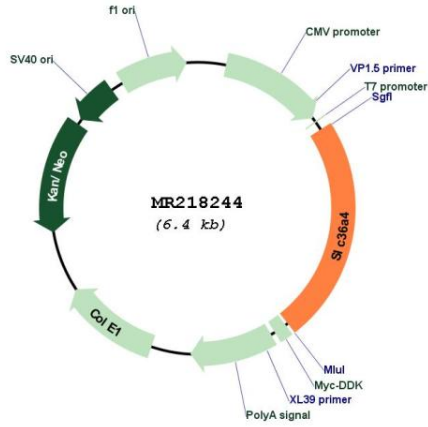
UniProt ID: [Q8CH36](#)

Cytogenetics: 9 A2

MW: 55.8 kDa

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

Product images:



Circular map for MR218244