

Product datasheet for **MR220834**

Slc38a3 (NM_023805) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a3 (NM_023805) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc38a3
Synonyms:	0610012J02Rik; D9Ucla2; mNAT; Nat1; Slc38-3; Sn1; Snat3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR220834 representing NM_023805
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGATACCCGACAGACAGAGATGGTGGAGCTGGTGCCCAATGGCAAACACTTGGAGGGCTTCTAC
 CAGTGGGCGTGCCCTACAACAGACACCCAGAGGACTGAAGACACCCAACACTGTGGAGAGGGCAAGGGCTT
 CCTTCAGAAGAGTCCCAGCAAGGAGCCACACTTACCGATTTTCGAGGGGAAGACATCATTTGGGATGTCA
 GTGTTCAATCTCAGCAACGCCATCATGGGCAGTGGAAATTCGGGGCTCGCCTACGCCATGGCCAATACGG
 GCATCATCCTTTTCTGTCTCTGTTACAGCGGTGCGCCTGTTGTCTAGCTATTCATCCACCTGCTCCT
 CAAGTCTTCGGGATTGTGGGCATCCGTGCCTACGAGCAGTTGGGCTACCGTGCCTTTGGGACCCCGGGG
 AAGCTGGCAGCAGCCCTGGCCATTACGCTTCAGAACATTGGAGCCATGTCCAGCTACCTATACATCATCA
 AGTCTGAATTGCCTCTTGTACATACAGACCTTCTGAATCTGGAGAAGCCGGCCTCGGTGTGTACATGGA
 TGGCAACTACCTTGTGATCCTGGTTTCTGTACCATCATTCTGCCCTAGCACTGATGCGACAGCTCGGC
 TACCTGGGTTACTCCAGTGGCTTCTCTCAGCTGCATGGTGTCTTCTTGATCGCAGTCATCTATAAGA
 AGTTCCAAGTTCCTTGCCATTGGCACACAACCTGGCCAATGCCACCGGCAACTCAGCCACATGGTGGT
 GGCAGAGGAGAAGGCACAGCTGCAGGGCGAGCCTGACACTGCTGCTGAGGCCCTTCTGTACCCCAAGCTAC
 TTCACCTCAACTCACAGACAGCATACACCATCCCATCATGGCTTTCGCCTTCGTCTGCCACCTGAGG
 TGCTGCCCATATATACAGAGCTCAAGGACCCCTCCAAGAGGAAGATGCAGCACATCTCCAACCTGTCCAT
 TGCTGTATGTATGTACTTCTGGCCGCTTCTCGGCTACCTCACCTTCTACGACGGGTGGAG
 TCGGAGCTGCTGCACACCTACAGCAAGGTGGACCCGTTTGTATGTGCTGATCTTGTGTGCGGAGTGGCC
 TGCTGATAGCGGTACACTTACAGTTCGATTGTTCTGTTCCCGGTACGACGTGCTATCCAGCAGATGCT
 GTTTCAGAACCAGGAGTTCAGCTGGTTCGGCAGGTGCTCATTGCCACTGGCCTGCTTACGTGCATCAAT
 CTGCTGGTTATCTTCGCCCCAACATCTTGGGCATATTTGGGATCATTGGTGCCACATCTGCTCCGTGCC
 TCATCTTCATCTTCCCTGCCATCTTCTACTTCCGAATCATGCCACTGACAAGGAGCCTGCAAGATCCAC
 CCCTAAATCCTGGCCCTTGTTCGCTGCGGTTGGCTTCTGCTGATGACCATGAGCCTGAGTTTCATC
 ATCATTGACTGGTCTCTGGACCAGCCAGCATGGAGGAAACCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220834 representing NM_023805
 Red=Cloning site Green=Tags(s)

MEIPRQTEMVELVPNGKHLEGLLPVGVPTTDTQRTEDTQHCGEKGFLOKSPSKEPHFTDFEGKTSFGMS
 VFNL SNAIMGSGILGLAYAMANTGIILFLFLLTAVALLSSYSIHLLKSSGIVGIRAYEQLGYRAFPTG
 KLAALAITLQNIAMSSYLIIKSELPLVIQTFNLNLEKPASVWYMDGNLVLVSVTIIILPLALMRQLG
 YLGYSSGFSLSVMVFLIAVIYKQVPCPLAHNLANATGNFSHMVVAEEKAQLQGEPTAAEFCTPSY
 FTLNSQTAYTIPIMAFVCHPEVLPITYTELKDPKSRKMQHISNLSIAVMYVMYFLAALFGYLFYDQVE
 SELLHTYSKVDPDFDLILCVRVAVLIAVTLVPIVLPVRRAIQMLFQNQEFQSWLRHVL IATGLLTCIN
 LLVIFAPNILGIFGIIGATSAPCLIFIPAIIFYFRIMPTDKEPARSTPKILALCFAAVGFLMLTMSLSFI
 IIDWVSGTSQHGGNH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_c04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_023805

ORF Size: 1515 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_023805.3](#), [NP_076294.2](#)

RefSeq Size: 2622 bp

RefSeq ORF: 1518 bp

Locus ID: 76257

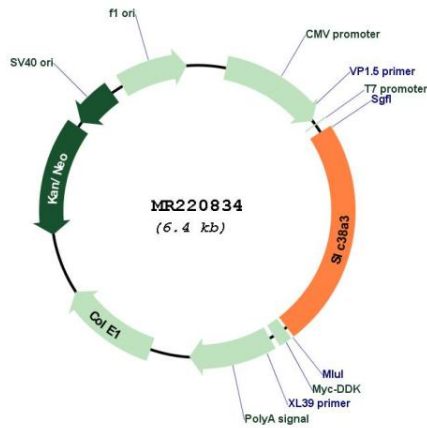
UniProt ID: [Q9DCP2](#)

Cytogenetics: 9 58.69 cM

MW: 56 kDa

Gene Summary: Sodium-dependent amino acid/proton antiporter. Mediates electrogenic cotransport of glutamine and sodium ions in exchange for protons. Also recognizes histidine, asparagine and alanine. May mediate amino acid transport in either direction under physiological conditions. May play a role in nitrogen metabolism and synaptic transmission. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220834