

Product datasheet for **MC228078**

Slc38a3 (NM_001199218) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a3 (NM_001199218) Mouse Untagged Clone
Tag:	Tag Free
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)



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Fully Sequenced ORF: >MC228078 representing NM_001199218
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATACCCGACAGACAGAGATGGTGGAGCTGGTGCCCAATGGCAAACACTTGGAGGGCTTCTAC
 CAGTGGGCGTGCCCTACAACAGACACCCAGAGGACTGAAGACACCCAACACTGTGGAGAGGGCAAGGGCTT
 CCTTCAGAAGAGTCCCAGCAAGGAGCCACACTTCCACGATTTTCGAGGGGAAGACATCATTTGGGATGTCA
 GTGTTCAATCTCAGCAACGCCATCATGGGCAGTGGAAATTCGGGGCTCGCCTACGCCATGGCCAATACGG
 GCATCATCCTTTTCTGTCTCTGTTACAGCGGTGCGCCTGTTGTCTAGCTATTCATCCACCTGCTCCT
 CAAGTCTTCGGGATTGTGGGCATCCGTGCCTACGAGCAGTTGGGCTACCGTGCCTTTGGGACCCCGGGG
 AAGCTGGCAGCAGCCCTGGCCATTACGCTTCAGAACATTGGAGCCATGTCCAGCTACCTATACATCATCA
 AGTCTGAATTGCCTCTTGTACATACAGACCTTCTGAATCTGGAGAAGCCGGCCTCGGTGTGGTACATGGA
 TGGCAACTACCTTGTGATCCTGGTTTCTGTACCATCATTCTGCCCTAGCACTGATGCGACAGCTCGGC
 TACCTGGGTTACTCCAGTGGCTTCTCTCTCAGCTGCATGGTGTCTTCTTGTATCGCAGTCATCTATAAGA
 AGTTCCAAGTTCCTTGCCATTGGCACACAACCTGGCCAATGCCACCGGCAACTTCAGCCACATGGTGGT
 GGCAGAGGAGAAGGCACAGCTGCAGGGCGAGCCTGACACTGCTGCTGAGGCCCTTCTGTACCCCAAGCTAC
 TTCACCTCAACTCACAGACAGCATACACCATCCCATCATGGCTTTCGCCTTCGTCTGCCACCCTGAGG
 TGCTGCCCATATATACAGAGCTCAAGGACCCCTCCAAGAGGAAGATGCAGCACATCTCCAACCTGTCCAT
 TGCTGTATGTATGTACTTCTGGCCGCCCTCTTCGGCTACCTCACCTTCTACGACGGGGTGGAG
 TCGGAGCTGCTGCACACCTACAGCAAGGTGGACCCGTTTGTATGTGCTGATCTTGTGTGCGGATGGCCG
 TGCTGATAGCGGTCACACTTACAGTTCGATTGTTCTGTTCCCGGTACGACGTGCTATCCAGCAGATGCT
 GTTTCAGAACCAGGAGTTCAGCTGGTTGCGGCAGGTGCTCATTGCCACTGGCCTGCTTACGTGCATCAAT
 CTGCTGGTTATCTTCGCCCCAACATCTTGGGCATATTTGGGATCATTGGTGCCACATCTGCTCCGTGCC
 TCATCTTCATCTTCCCTGCCATCTTCTACTTCCGAATCATGCCACTGACAAGGAGCCTGCAAGATCCAC
 CCCTAAATCCTGGCCCTTTGTTTCGCTGCGGTTGGCTTCTGCTGATGACCATGAGCCTGAGTTTCATC
 ATCATTGACTGGGTCTCTGGGACCAGCCAGCATGGAGGAAACC**ATAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001199218
- Insert Size:** 1518 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001199218.1](#), [NP_001186147.1](#)

RefSeq Size: 2474 bp

RefSeq ORF: 1518 bp

Locus ID: 76257

UniProt ID: [Q9DCP2](#)

Cytogenetics: 9 58.69 cM

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]
Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1-3 encode the same protein.