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Product datasheet for MC218777

Slc38a4 (NM_027052) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a4 (NM_027052) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc38a4
Synonyms:	1110012E16Rik; 1700012A18Rik; Ata3; mATA3; mNAT3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC218777 representing NM_027052
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCCCATGGAACTGAACAACGTCAGCATCGAACCCGACGGAGACAGCTGCAGCGGGGACAGTATTC
AGGACAGCTACACCGGCATGGAAAACTCCGACAAGGACGCCATGAACAGCCAATTTGCTAATGAAGATGC
CGAAAGTCAGAAGTTCCTGACAAATGGGTTTTTAGGGAAGAAGAAGCTAGCCGATTACGCGGATGAGCAT
CACCCTGGAATGACTTCCTTTGGAATGTCCTCATTTAACCTGAGCAACGCCATCATGGGCAGTGGGATCT
TAGGCTTGTCCTATGCCATGGCCAACACCGGGATCATCCTTTTTATAATCATGCTGCTTACTGTGGCAAT
ACTCTCGCTCTACTCGGTTCACCTTTTGCTGAAGACAGCCAAGGAAGGAGGGTCTCTAATCTATGAAAAA
TTGGGCGAGAAAGCATTTGGATGGCCTGGGAAAATTGGAGCCTTCATCTCTATTACAATGCAGAACATTG
GAGCCATGTCAAGCTACCTCTTCATCATTAAGTACGAACTGCCTGAAGTAATCAGAGCATTCATGGGACT
TGAAGAAAACACTGGGGAATGGTACCTCAACGGCAACTACCTCGTCTTATTTGTGTCCGTGGGGATCATC
CTCCCGCTCTCTCTCCTTAAAAATTTAGGCTACCTTGGCTACACCAGTGGATTTTCTCTCTCCTGCATGG
TGTTTTTCGTCAGTGTGGTGATTTACAAAAAATTCCAAATTCCCTGCCCTCTGCCTGCTCTGGATCACAA
CAACGGAAATCTGACGTTCAACAACACACTTCCGATTCACATGATCTCGCTGCCTAATGACTCGGAGAGC
TCGGGTGTGAACTTCATGATGGATTACGCTCACCACAACCCAGCTGGGCTGGATGAGAAGCAGGTCGCAG
GCCCTCTTCACAGCAATGGCGTGGAGTACGAAGCCCAGGGTGCTGAGAAATGCCAACCAAAATACTTTGT
GTTCAATTCCCGGACGGCCTATGCAATCCCAATCCTGGCTTTTGCTTTTGTCTGCCACCCTGAGGTCCTT
CCCATCTACAGCGAGCTTAAAGATCGATCCCGCAGAAAGATGCAGACGGTGTCCAACATTTCCATCTCAG
GCATGCTCGTCATGTACCTTCTTGCGGCCCTCTTTGGTTATCTGAGCTTCTACGGGGACGTTGAAGACGA
GCTGCTGCATGCTTACAGCAAGGTCTACACATTTGATACGGCTCTTCTCATGGTGCGCCTGGCAGTCCTG
GTGGCAGTGACACTGACCGTGCCCATCGTGCTGTTCCCGATCCGTACTTCGGTGATCACACTGCTGTTTC
CAAGGAAACCCTTCAGCTGGCTGAAGCATTTCGGGATCGCTGCAATCATCATCGCACTCAACAACATCCT
GGTCATCCTCGTGCCTACCATCAAATACATCTTTGGATTCATAGGGGCTTCTTCTGCCACTATGCTGATT
TTCATTCTTCCGGCTGCGTTTTATCTCAAGCTCGTCAAGAAAGAACCTCTAAGATCACCCCAGAAGATTG
GGGCTTTGGTCTTCCTTGTGACTGGAATTATTTTCATGATGGGAAGCATGGCGCTCATTATACTCGACTG
GATCTACAACCCGCCGAATCCCAATCACCACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_027052

Insert Size: 1644 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).

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_027052.3, NP_081328.2
RefSeq Size:	3932 bp
RefSeq ORF:	1644 bp
Locus ID:	69354
UniProt ID:	Q8R1S9
Cytogenetics:	15 F1
Gene Summary:	Sodium-dependent amino acid transporter. Mediates electrogenic symport of neutral amino acids and sodium ions. Has a broad specificity, with a preference for Ala, followed by Ser, His, Gly, Cys, Asn, Thr, Pro, Gln and Met. May mediate sodium-independent transport of cationic amino acids, such as Arg and Lys. Amino acid uptake is pH-dependent, with lower transport activities at pH 6.5, intermediate at pH 7.0 and highest between pH 7.5 and 8.5. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein.