

Product datasheet for **MC204446**

Slc38a1 (NM_134086) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a1 (NM_134086) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc38a1
Synonyms:	AA408026; AA409865; AL022800; AU015942; NAT2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC030378
 CCACGCGTCCGGACCTGGGGCCACCTTTCCCTAGCTAGTCCCTTGACACAAAAAGGACATCTAACTGCCG
 GGGACGGCCTGGAAGGGCGGACACTTTGGTGGCGCCTTTCCCTTTATTTCTCGAGGGGTCTCAGGCATCT
 GTATTTGCTGCTGTCTGCTACTAAAGAGCCTCAGAACGGAAGAAATTTGGGTTGACTTTTACTGCGGAC
 ACCGAATATGATGCATTTCAAAGTGGCCTCGAGCTAACGGAGCTGCAGAACATGACGGTGCCCGAAGAT
 GACAACGTCAGCAACGACTCTAATGACTTCACAGAAGTAGAAAACGGCCAGATAAATAGCAAGTTCATCT
 CAGATCGGGAGAGTAGGAGGAGTCTCACAACAGCCATCTGGAGAAAAGGAAATGCGGACGATATATCC
 AGGAACAACCTCCCTGGGAATGTCTGTCTTTAACCTGAGCAACGCCATCATGGGCAGTGGAAATCTTGGGC
 CTTGCCTTCGCTTGGCCAACACCGGGATCCTCCTCTTTCTGATACTTCTGACTTCTCGGTGACACTGCTGT
 CTATATATTCAATAAACCTACTGCTGATCTGTTCCAAGGAAACCGGCTGCATGGTGTATGAGAAGCTGGG
 AGAGCAAGTCTTCGGCACACGGGGAAGCTGGTGTCTTCGGAGCCACCTCTCTGCAGAACACTGGGGCG
 ATGCTGAGCTACCTTTCATAGTAAAAACGAACCTCCTTCAGCCATAAAATCCCTCATGGGAGAGGAGG
 ATGCATTTTCAGCCTGGTACGTCGATGGCCGAGTGTGGTGGTGTGGTACCTTTGGCATAATCCTTCC
 GCTGTGCTCTTGAAGAACCTGGGGTATCTTGGCTACACGAGTGGGTTTTCCCTAAGCTGCATGATGTTT
 TTCCTAATAGTGGTCATCTACAAGAAATTTCAAGTCCCTGCATGAGTGTGGAGCAGAATCGACAGTCA
 GTGCTAATGTGACCGACGCTGCACACCAAAGTATGTCACCTTCAACTCAAAGACGGTGTATGCTTTACC
 AACCATCGCCTTCGCGTTTGTCTGCCACCCGTCCTGCTGCAATCTACAGCGAGCTCAAAGACCGGTCA
 CAGAAGAAAAATGCAGATGGTTTTCCAACATCTCCTTCTTTGCTATGTTTGTGATGACTTCTGACGGCCA
 TCTTTGGTACTTTCAGCTTTTATGAAAAGGTGCAGTCAGATCTCCTTCACAAGTACCAGAGCACAGGCGA
 CATTCTCATCCTAACCGTGGCGTGGCCGTCATCGTGGCCGTCATCCTCACCGTGCCTGTGCTGTTTTTC
 ACAGTTCGATCATCGTTATTTGAGCTGGCCAAGAAGACAAAGTCCACCTGTGCCCCATGTCTTGGTGA
 CCATCATACTCTTGATCATTATCAACCTGTTGGTGTCTTCATCCCTCCATGAAGGATATCTTTGGAGT
 CGTAGGAGTCAGTCTGCTAATGCTCATTTCATTCTTCTTCTGCTCTTTATTTAAAAATCACGAAC
 CAGGACGGAGATAAAGGCACTCAAAGAATTTGGGCGGCCCTTTTCTTGGGCTTGGGGTGTGTTCTCCT
 TGATCAGCATCCCTCTGGTCATCTACGACTGGGCTTGCTCCTCTGGCACCGACGAAGGCCACTGAAGCCC
 GCAGCCACACCCAGCATCCGCCACACCCATCCAGCCCCATCAGCAGCCCACCGCCACTTCTTTTGCAA
 GTTTACAGAAACAGAAACGCACAGGGTTCTCTCGGGTGGCCACAGAGACTACTGCTTCTAGAAGGA
 CCCGCGTCTCTCGGACCTACACTTTGGGACCGTGGATTTCTGCTTCTCCAGATTTCTGCGCCATCT
 TGTCAGCCCTTCCACAGTTCTCCTCCGCTCCTCATTGTTGGCTTCTCTCTCTCCTCTCAGAA
 ACTATGGAACACGATCAACAGTTGTCTCACTGTTAGATACCCAGCTCCTGAAATCGTTTTCTAACT
 GACGCTCCGCTCACGCTGTCTGCATCTTTTAGAAGAAGAGAAAATAATCTTGAATTGTATATTTATT
 TTGCTTTACAGAAAAAAAATAAGGTTTCAGAAAAAAAAGGTTTCATAAATAAAAAAAAAAAAAAAAAA
 AA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_134086
- Insert Size:** 1458 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: [BC030378](#), [AAH30378](#)

RefSeq Size: 2230 bp

RefSeq ORF: 1458 bp

Locus ID: 105727

UniProt ID: [Q8K2P7](#)

Cytogenetics: 15 F1

Gene Summary: Functions as a sodium-dependent amino acid transporter. Mediates the saturable, pH-sensitive and electrogenic cotransport of glutamine and sodium ions with a stoichiometry of 1:1. May also transport small zwitterionic and aliphatic amino acids with a lower affinity. May supply glutamatergic and GABAergic neurons with glutamine which is required for the synthesis of the neurotransmitters glutamate and GABA.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1-3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.