

Product datasheet for **SC336488**

SLC38A1 (NM_001278390) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A1 (NM_001278390) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC38A1
Synonyms:	ATA1; NAT2; SAT1; SNAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC336488 representing NM_001278390.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGATGCATTTCAAAGTGGACTCGAATTAAGTGAAGTGGTCAAAACATGACAGTGCCCGAGGATGATAAC
ATTAGCAATGACTCCAATGATTTACCGAAGTAGAAAATGGTCAGATAAATAGCAAGTTTATTTCTGAT
CGTGAAAGTAGAAGAAGTCTCACAAACAGCCATTTGGAAAAAAGAAGTGTGATGAGTATATTCCAGGT
ACAACCTCCTTAGGCATGTCTGTTTTAACCTAAGCAACGCCATTATGGGCAAGTGGGATTTTGGGACTC
GCCTTTGCCCTGGCAAACACTGGAATCCTACTTTTTCTGGTACTTTTACTTTCAGTGACATTGCTGTCT
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ATGCTGAGCTACCTTTCATCGTAAAAATGAACTACCCTCTGCCATAAAGTTTCTAATGGGAAAGGAA
GAGACATTTTCAGCCTGGTACGTGGATGGCCGCTTCTGGTGGTATAGTTACCTTTGCCATAATTCTC
CCTCTGTGTCTTGAAGAACTTAGGGTATCTGGCTATACTAGTGGATTTTCTTGAGCTGATGGTT
TTTTTCCTAATTGTGGTTATTTACAAGAAATTTCAAATCCCTGCATTGTTCCAGAGCTAAATTCACA
ATAAGTGCTAATTCACAATGCTGACACGTGTACGCCAAAATATGTTACCTTCAATTCAAAGACCGTG
TATGCTTTACCCACCATTCATTTGCATTTGTTTCCACCCGTCAGTCTGCCAATTTACAGTGAGCTT
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CAGAGTAAAGATGACATTCATCTGACAGTGGCGTGGCTGTCATTGTTGCTGTGATCCTCACAGTG
CCGGTGTATTTTTCACGGTTCGTTTCATCTTTATTTGAACTGGCTAAGAAAAAAGTTTAAATTTATGT
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TATTTAAAAATCACAGACCAGGATGGAGATAAAGGAACTCAAAGAATTTGGCTCTTTCTCTTCTCCAG
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CTCAAGCGCAAGGAACTTATAATCTTGTGTTCTCTGGATTCTGGATTTAGTAATCTGTATTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001278390

Insert Size: 1512 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_001278390.1](#)

RefSeq Size: 2885 bp

RefSeq ORF: 1512 bp

Locus ID: 81539

Cytogenetics: 12q13.11

Protein Families: Transmembrane

MW: 56.2 kDa

Gene Summary: Amino acid transporters play essential roles in the uptake of nutrients, production of energy, chemical metabolism, detoxification, and neurotransmitter cycling. SLC38A1 is an important transporter of glutamine, an intermediate in the detoxification of ammonia and the production of urea. Glutamine serves as a precursor for the synaptic transmitter, glutamate (Gu et al., 2001 [PubMed 11325958]).[supplied by OMIM, Mar 2008]
Transcript Variant: This variant (6) differs in the 5' UTR and has an alternate 3' terminal exon, compared to variant 3. The resulting isoform (2) is longer and has a distinct C-terminus, compared to isoform 1.