OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC113803

SLC38A4 (NM_018018) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A4 (NM_018018) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC38A4
Synonyms:	ATA3; NAT3; PAAT; SNAT4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC113803 sequence for NM_018018 edited (data generated by NextGen Sequencing)

ATGGATCCCATGGAACTGAGAAATGTCAACATCGAACCAGATGATGAGAGCAGCAGTGGA
GAAAGTGCTCCAGATAGCTACATCGGGATAGGAAATTCAGAAAAGGCAGCAATGAGCAGT
CAATTTGCTAATGAAGACACTGAAAGTCAGAAATTCCTGACAAATGGATTTTTGGGGAAA
AAGAAGCTGGCAGATTATGCTGATGAACACCATCCCGGAACCACTTCCTTTGGAATGTCT
TCATTTAACCTGAGTAATGCCATCATGGGCAGTGGGATCCTGGGCTTGTCCTATGCCATG
GCCAACACAGGGATCATACTTTTTATAATCATGCTGCTTGCTGTGGCAATATTATCACTG
TATTCAGTTCACCTTTTATTAAAAACAGCCAAGGAAGGAGGGTCTTTGATTTATGAAAAA
TTAGGAGAAAAGGCATTTGGATGGCCGGGAAAAATTGGAGCTTTTGTTTCCATTACAATG
CAGAACATTGGAGCAATGTCAAGCTACCTCTTTATCATTAAATATGAACTACCTGAAGTA
ATCAGAGCATTCATGGGACTTGAAGAAAATACTGGAGAATGGTACCTCAATGGCAACTAC
CTCATCATATTTGTGTCTGTTGGAATTATTCTTCCACTTTCGCTCCTTAAAAATTTAGGT
TATCTTGGCTATACCAGTGGATTTTCTCTTACCTGCATGGTGTTTTTTGTTAGTGTGGTG
ATTTACAAGAAATTCCAAATACCCTGCCCTCTACCTGTTTTGGATCACAGTGTTGGAAAT
CTGTCATTCAACAACACGCTTCCAATGCATGTGGTAATGTTACCCAACAACTCTGAGAGT
TCTGATGTGAACTTCATGATGGATTACACCCACCGCAATCCTGCAGGGCTGGATGAGAAC
CAGGCCAAGGGCTCTCTTCATGACAGTGGAGTAGAATATGAAGCTCATAGTGATGACAAG
TGTGAACCCAAATACTTTGTATTCAACTCCCGGACGGCCTATGCAATTCCTATCCTAGTA
TTTGCTTTTGTATGCCACCCTGAGGTCCTTCCCATCTACAGTGAACTTAAAGATCGGTCC
CGGAGAAAAATGCAAACGGTGTCAAATATTTCCATCACGGGGATGCTTGTCATGTACCTG
CTTGCCGCCCTCTTTGGTTACCTAACCTTCTATGGAGAAGTTGAAGATGAATTACTTCAT
GCCTACAGCAAAGTGTATACATTAGACATCCCTCTTCTCATGGTTCGCCTGGCAGTCCTT
GTGGCAGTAACACTAACTGTGCCCATTGTCCTCTTCCCAATTCGTACATCAGTGATCACA
CTGTTATTTCCCAAACGACCCTTCAGCTGGATACGACATTTCCTGATTGCAGCTGTGCTT
ATTGCACTTAATAATGTTCTGGTCATCCTTGTGCCAACTATAAAATACATCTTCGGATTC
ATAGGGGCTTCTTCTGCCACTATGCTGATTTTTATTCTTCCAGCAGTTTTTTATCTTAAA
CTTGTCAAGAAAGAAACTTTTAGGTCACCCCAAAAGGTCGGGGCTTTAATTTTCCTTGTG
GTTGGAATATTCTTCATGATTGGAAGCATGGCACTCATTATAATTGACTGGATTTATGAT
CCTCCAAATTCCAAGCATCACTAA

Clone variation with respect to NM_018018.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018018 unedited

GTTCGCATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACCAGGCCTGGAGCAT
GAGCCGGGTGGTGGCGTGCACGGAGGATCGCGGGAGGCTGCCGCCTCGGGACACCCCACT
CACACAGAACAGAGTGTTCTGAACATCAACACAAAGTGGAAGAACCTTAAGCTGAAGGTA
CAGTATATTATTTACACTGAAGGGGCTTGTGTGTGGACAAGAAAGCGCTGACAGCTCAAA
TGGATCCCATGGAACTGAGAAATGTCAACATCGAACCAGATGATGAGAGCAGCAGTGGAG
AAAGTGCTCCAGATAGCTACATCGGGATAGGAAATTCAGAAAAGGCAGCAATGAGCAGTC
AATTTGCTAATGAAGACACTGAAAGTCAGAAATTCCTGACAAATGGATTTTTGGGGAAAA
AGAAGCTGGCAGATTATGCTGATGAACACCATCCCGGAACCACTTCCTTTGGAATGTCTT
CATTTAACCTGAGTAATGCCATCATGGGCAGTGGGATCCTGGGCTTGTCCTATGCCATGG
CCAACACAGGGATCATACTTTTTATAATCATGCTGCTTGCTGTGGCAATATTATCACTGT
ATTCAGTTCACCTTTTATTAAAAACAGCCAAGGAAGGAGGGTCTTTGATTTATGAAAAAT
TAGGAGAAAAGGCATTTGGATGGCCGGGAAAAATTGGAGCTTTTGTTTCCATTACAATGC
AGAACATTGGAGCAATGTCAAGCTACCTCTTTATCATTAAATATGAACTACCTGNAGTAA
TCAGAGCATTCATGGGACTTNGAGAANATACTGGAGAATGGTACCTCATGGCAACTACCC
TCATCATATTGNGTCTGTTGGAATTATTCTTCCACTTTCGTTNCTTTAAAATTTAGGTAT
CTTGGCTATACCAGTGGATTNTCTCTT

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_018018 unedited
NTTTCTATGGNACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATTTG
AAAAGTTCATTTATTATATACCAATATACACTTTCTGTAATAAAAAAGAAGCCTCCCAAT
ACATTGAGCCATCTTATAAATGAAATAAGAAAATAAAATTTTCATCTGTTTACAAATGGG
GTTAAATTAATCAGCACAAGCTATCATATGTATGTCTGCCCTGCAGTATATATGAATTTT
AATCCTGGTTATGAAGAAAAAAATGGTGCTTTATTATTTGGCACTATAGGATGCTCTTGA
ACATTCAGAAGATACCTTTTTCCACTTTTTATTTTTGTATACTTTTTAGATGAGTGAAAA
TGTAAATATATCCTAAAGATGCTATTTGGCAGATTTTTTTCAAATAATAGTAGCTCAAAA
GTACGTGTATGATACTTGTACTTCATAATTGGCTTTACTAAAATATAAAATACACAAGTG
ATCTTACTATGATTTGAAAAAAAGGTAGTGAACTCCAGAAGTTTTAGGCTGTGAGTAGGA
ATTTTTAAATCCATTTTATGTAAGTTTGTTATAGAAGTGAGCAAGAATGATCGTGTGCAT
TTCTTCGTAGTGTTAGCACTTATACTTTTACGGAGAACCACTCAACACTGTATTAAATGG
CCAATGAATGTCAGCAAACACCTGTGTGAGCTAAACTGAACTAANTCCTATTTTAGATAT
GCTAAATTAAAAGAAACACTTTAGTATGATAAAAATTTGCANAAAGAAACTTATTTTCTT
GTAGATCATCCTATTATTGAAATATTNGAGAAGAGCATTGCCAANCTATATATACTTAGG
TTNCAAATTAANNTATCCCAGACATTNGTAGACAGATACATATGAATGGNATTNTCGAGC
CCNACCACTTNANTCCCTGCCNCCCCCCNNCATATTAANTGCTTTGACTGTGAAGAAGAA
AACTACCATGTA
```

Restriction Sites: NotI-NotI

ACCN: NM_018018

Insert Size: 3860 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018018.2, NP_060488.2

RefSeq Size: 3965 bp

RefSeq ORF: 1644 bp

Locus ID: 55089

UniProt ID: Q969I6

Cytogenetics:	12q13.11
Domains:	Aa_trans
Protein Families:	Transmembrane
Gene Summary:	SLC38A4 is found predominantly in liver and transports both cationic and neutral amino acids. The transport of cationic amino acids by SLC38A4 is Na(+) and pH independent, while the transport of neutral amino acids is Na(+) and pH dependent (Hatanaka et al., 2001 [PubMed 11342143]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.