

Product datasheet for **SC321862**

SLC38A3 (NM_006841) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A3 (NM_006841) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC38A3
Synonyms:	G17; NAT1; SN1; SNAT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006841.3
 GCCGAGTTCAGCCGGGAGCAGAGCGAACCCGACCCGGCCCGAGCGGAGCGCCGCACGTTCC
 CAACCCGAGAGCCAGACATCTGACTGTTGGTGTGAGACCAGTGCTCCTGGTGGTGTGCC
 TGAGCCATGGAGGCGCCTTTGCAGACAGAGATGGTGGAGCTGGTGCCCAATGGCAAACAC
 TCAGAGGGGCTGCTCCCGGTATCACCCCATGGCAGGCAACCAGAGGGTCGAGGACCCT
 GCACGGAGCTGTATGGAGGGCAAGAGCTTCCTACAGAAAAGTCCCAGCAAGGAGCCACAC
 TTCACTGACTTCGAGGGGAAGACATCATTCCGGGATGTCAGTGTTC AACCTCAGCAATGCC
 ATCATGGGCAGCGCATCCTGGGACTCGCCTATGCCATGGCCAATACGGGCATTATCCTT
 TTCTGTCTCTGTTGACAGCTGTCGCCTTGCTCTCCAGCTACTCCATCCACCTGCTACTC
 AAGTCTCAGGGGTCGTGGGCATCCGTGCCTATGAGCAGCTGGGCTACCGTGCCTTTGGG
 ACCCCAGGAAAGCTGGCAGCAGCCCTGGCCATCACGCTCCAGAACATCGGAGCCATGTCC
 AGCTACCTGTACATCATCAAGTCTGAGCTGCCACTTGTACATACAGACCTTCTGAACCTG
 GAGGAGAAAACCTCGGACTGGTACATGAACGGAACTACCTGGTAATCCTTGTCTCTGTC
 ACCATCATTCTGCCCTGGCACTGATGCGGCAGCTTGGCTACCTGGGCTACTCCAGCGGC
 TTCTCTTTAGCTGCATGGTGTCTTCTTAATTGCAGTCACTACAAAAAGTTCCACGTG
 CCTGCCCAGTGCCTCAACTCAACAACACCACAGGCAACTTCAGCCACGTGGAGATC
 GTGAAGGAGAAGGTGCAGCTGCAGGTCGAGCCTGAGGCTTCAGCCTTCTGCACTCCCAGC
 TACTTCACGCTCAACTCACAGACAGCATACACCATCCCCATCATGGCCTTCGCCTTCGTC
 TGCCACCCCGAGGTGCTGCCATCTATACTGAGCTCAAGGACCCCTCCAAGAAGAAGATG
 CAGCACATCTCCAACCTGTCATCGCTGTATGTACATCATGACTTCTGGTGCCTC
 TTCGGTACCTCACCTTCTACAACGGGGTGGAGTCGGAGCTGTGCACACCTACAGCAAG
 GTGGACCCGTTTACGTCCTGATCCTGTGTGTGCGCGTGGCCGTGCTGACAGCAGTCACG
 CTCACAGTGCCCATCGTTCTGTTCCCGGTGCGCCGCCATCCAGCAGATGCTGTTTCCA
 AACCAGGAGTTACGCTGGCTGCGGCATGTGCTTATTGCCGTTGGCCTGCTCACTTGTATC
 AACCTGTGTGTCATCTTTGCCCCCAACATCCTGGGCATCTTTGGGGTCATCGGTGCCACA
 TCTGCCCATTCCTCATCTTCTCCTGCCATCTTCTACTTCCGAATCATGCCACG
 GAGAAGGAGCCTGCAAGATCCACCCCAAAATCCTGGCCCTGTGTTTGTATGCTTGGC
 TTCTTGTGATGACCATGAGCTTGAAGTTCATCATATTGACTGGGCCTCAGGGACCAGC
 CGGCATGGAGGAAACCACTAGGGTGACCCTCATCCTGTTCTGTCTACTCACCTAGCAGC
 CCTGCCAGACTTTCAGCCCTGCTCCCATCCAGTGGCCAGTCGGGGGAGGAGAAAGAC
 GCGATTAACACTGTGGCATTACGCCAGGCCCATGTCCTCTGTGGAAGGTTTTTGTTC
 AAGAGCCAGGACCAAGGCCCTTGGGCCACTACCTGCTAGGCTCTGGAGCTGTAGAGGCT
 TCCTGAACTGGGAGCAGGTTAGGCTGTGCGCTTAGATCCCGCCAAGGCCCTCATTCCC
 TCCTTGCACAGATGCATACACTGGGGCCAGCAGCTGCCTCCTGAGGTGACACAGCCTGT
 AGGAACATACACAGCTGGGATCAGCCTGCAGCCATCCCCGACCCCTGCTGCTAGGCCACG
 GTCTGCGCCCTGGGGCCTCATCTCCCCAGCCACTTGTTCCTCCCTTTTATTCCTA
 GGCCCTTTTTCAGACTCCTGGGCCTTGGATACTTCTCCCATCTCCCTTACAGGATGA
 CACCCTCCCATACCCATAGCTGGGGCCAGCAGGTTCTGCTGAGGGTGGGGCTGGTGTAG
 GGACCCCAAGAGACCCCTGCTGTCCTTACCAGTCTGGGGAGGCTGGGACTCCCC
 CTGCCACAAGCCTGGGCCACAGCTCACATTCCACTGCTGGGAGAAGAAACAGGCCGAGGC
 CCAGAGTGGCCTGCCCGGGAGCCAAAGACCCAGTGGCCACACTGGGATAGGGTGGGG
 AGGCTGGCAGCCCTTTTTATAAATATTATACATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_006841

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_006841.3</u> , <u>NP_006832.1</u>
RefSeq Size:	2559 bp
RefSeq ORF:	1515 bp
Locus ID:	10991
UniProt ID:	<u>Q99624</u>
Cytogenetics:	3p21.31
Domains:	Aa_trans
Protein Families:	Transmembrane
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]