

## Product datasheet for **SC118263**

### SLC1A4 (NM\_003038) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A4 (NM_003038) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC1A4
Synonyms:	ASCT1; SATT; SPATCCM
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC118263 sequence for NM\_003038 edited (data generated by NextGen Sequencing)

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ATGGAGAAGAGCAACGAGACCAACGGCTACCTTGACAGCGCTCAGGCGGGGCTGCGGCC
GGGCCCCGAGCTCCGGGGACCGCGGGGACGCGCACGGCGTTGCGCGGGCTTCTGCGG
CGCCAAGCGTGGTGTGCTCACCGTGTCCGGGTGCTGGCGGGCGCGGGCTGGGCGCG
GCGTTGCGCGGGCTCAGCCTGAGCCGCACGAGGTACCTACCTGGCCTTCCCGGCGAG
ATGCTGCTCCGCATGCTGCGCATGATCATCTGCCGCTGGTGGTCTGCAGCCTGGTGTG
GGCCTCCGCTCGCTCGATGCCAGCTGCCTCGGGGTCTGGGCGGCATCGCTGTCGCCTAC
TTTGGCCTCACCACTGAGTGCCTCGGCGCTCGCCGTGGCCTTGGCGTTCATCATCAAG
CCAGGATCCGGTGCAGACCTTCCAGTCCAGCGACCTGGGGCTGGAGGACTCGGGGCT
CCTCTGTCCCAAGAGACGGTGGACTCTTCTCGACCTGGCCAGAACTGTTTCC
TCCAATCTGTGGTTGCAGCTTCCGTACGTATGCAACCGATTATAAAGTCGTGACCCAG
AACAGCAGCTCTGAAATGTAACCCATGAAAAGATCCCCATAGGCACTGAGATAGAAGGG
ATGAACATTTTAGGATTGGTCTGTTGCTCTGGTGTAGGAGTGGCCTTAAAGAACTA
GGCTCCGAAGGAGAAGACCTCATCCGTTTCTTCAATCCCTCAACGAGGCGACGATGGT
CTGGTGTCTGGATTATGTGGTACGTACCTGTGGGCATCATGTTCTTGTGGAAGCAAG
ATCGTGGAAATGAAAGACATCATCGTGGTGGTACCAGCCTGGGAAATACATCTTCGCA
TCTATATTGGGCCATGTTATTCATGGAGGAATTGTTCTGCCACTATTTATTTGTTTTT
ACACGAAAAAACCATTAGATTCTCCTGGGCTCCTCGCCCCATTTGCGACAGCATT
GCTACCTGCTCCAGCTCAGCGACCTTCCCTCTATGATGAAGTGCATTGAAGAGAACAAT
GGTGTGGACAAGAGGATCAGCAGGTTTATTCTCCCATCGGGGCCACCGTGAACATGGAC
GGAGCAGCCATCTCCAGTGTGTGGCGCGGTTCATTGCGCACTCAACAACATAGAG
CTCAACGCAAGGACAGATTTTACCATTCTAGTACTGCCACAGCGTCCAGTGTGGAGCA
GCAGGCGTGCCAGCTGGAGGGTCTCACCATGCCATTATCCTGGAGGCCATTGGGCTG
CCTACTCATGACCTGCCTCTGATCCTGGCTGTGGACTGGATTGTGGACCGGACCACCAG
GTGGTGAATGTGGAAGGGGATGCCCTGGGTGCAGGCATTCTCCACCACCTGAATCAGAAG
GCAACAAAGAAAGGCGAGCAGGAACCTGCTGAGGTGAAAGTGGAAAGCCATCCCCAAGT
AAGTCTGAGGAGGAGACATCGCCCTGGTACACACCAGAACCCCGCTGGCCCCGTGGCC
AGTGCCCCAGAACTGGAATCCAAGGAGTCAGTTCTGTGA
    
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Clone variation with respect to NM\_003038.4  
 1195 g=>a;1590 g=>a

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003038 unedited

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GTAATACGACTCACTATAGGGCGGCCGGAATCGGCACGAGGCGATCCTCTCGCCCCGG
GCTCCAACCCGCACTCTGCGCTCTCCTCGCCTTCTCGCACCTGCTCCTGCGCCAGGCC
CGGAGACCCCGGGCGGCTTCCAGAACCTGCGGAGCACAACCTGGCCGACCGACCCATT
CATTGGGAACCCCGTCTTTTCCAGAGCCACGTCCCCTGCCACCTCTAGCTCGGAGCGG
CGTGTAGCGCCATGGAGAAGAGCAACGAGACCAACGGCTACCTTGACAGCGCTCAGGCGG
GGCCTGCGGCGGGCCCGGAGCTCCGGGACCGCGGGGACGCGCACGGCGTTGCGCGG
GCTTCTGCGGCGCAAGCGTGGTGTGCTCACCGTGTCCGGGTGCTGGCGGGCGCGG
GCCTGGGCGGGCGTTCGCGGGCTCAGCCTGAGCCGCACGAGGTACCTACCTGGCCT
TCCCCGGCGAGATGCTGCTCCGCATGCTGCGCATGATCATCTGCCGCTGGTGGTCTGCA
GCCTGGTGTGCGGCGCCCTCGCTCGATGCCAGCTGCCTCGGGGTCTGGGCGGCATCG
CTGTGCTACTTTGGCCTCACCACTGAGTGCCTCGGCGCTCGCCGTGGCCTTGGCGT
TCATCATCAAGCCAGGATCCGGTGCAGACCCCTCAGTCCAGCGACCTGGGGCTGGNNA
GACTCGGGCTNCTNCTGTCCCAAGAGACGGTGGACTCTTCTCGACCTGGCCAGAA
ACCTGTTTCCCTCCATCTTGTGGNTGCAGCTTCCGTACGTATGCAAACCGATATAAAGT
CGTGACCCAAACAGCAGCTCTGGAATGTAACCCATGAAAAGACCCCNATAGCACTGAGA
TAGAGGGATGAACATNTAGA
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_003038 unedited ACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCCGTGGAACACGGTAT TCATTTCTGAGGACTGTGCTAGGTTTTTAAGGCAATTGTCACATGTACAAAACAGTCAGAT GAGCAGTATCTGAACAGATTTACCACAACATGTTAGAAAGAGAACAGCAGGGGAAATGTT TTCAGACAAGGAGATGTGAGATTTCCCCAGTCACGTAACCCCTGGTCTACCGACTCTGT GGACTGAAAACCAGGAAGATAGACAGCACATTCTCTTCTCGCCTCCAAGGGGAAGGGC CACCTGCACACTCTCGGAAGCACCCCTTCTCCAGACCCAGACACGCTTCTTACTGCAGGGC CACGCCAGGACACAGGATGGTCGGCCAATGAGTCTTAAGTCCAGCTCTAATTTACAGCTT TATGGCTTTGTGAAATTCATCTTTAGAAATGGGAAAATCAAGATACCACAGACATACAAC TTGTAGTTAATAGTTAAGATCCCCTCTATCCAAACACAAACTTGCTTGGCTTGGAGCTAA AACTATACACACACGCACACACACATGCATATACACAACACACACAACACACATGTGT GTATAGATATACATATGTGTGTGTGTGTGTATATATATGAAGGAAGAAAAAAGA TTTACTGAAGCCTGAAGATAGTGAGTGTTCAATTTACCATTTGAAATCAAACATGTGATT GTTTCCCTTGAAAACAGAGATATCAGCACATGCTCTACCCAGCGGGAAAAAGTTTCAGT TTCCCTTTGCACGGTNCCTGGTCCNTTTGNCTCACAGGAGACTGGNATGGCTTANCTGGT TNAAGAGAGCTGGGCTTTCCCTGGCTGGTCACTCTGTGNCCATGGCTCTCTTACCTT TCTGCTCAGCTATGTCCANTTTAAAAGGGGTGTGGCTGAGGTCTCGTNTCTACCCCTT TCTTTATGGGCAACATCTAACGGGCCCTGCTGTAGCCAGTGAACACACAGAAAAAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003038
<b>Insert Size:</b>	4960 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_003038.2, NP_003029.2</u>
<b>RefSeq Size:</b>	4562 bp
<b>RefSeq ORF:</b>	1599 bp
<b>Locus ID:</b>	6509
<b>UniProt ID:</b>	<u>P43007</u>
<b>Cytogenetics:</b>	2p14
<b>Domains:</b>	SDF

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** The protein encoded by this gene is a sodium-dependent neutral amino acid transporter for alanine, serine, cysteine, and threonine. Defects in this gene have been associated with developmental delay, microcephaly, and intellectual disability. [provided by RefSeq, Jan 2017]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).