

## Product datasheet for **SC322481**

### SLC66A1 (NM\_001040126) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC66A1 (NM_001040126) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC66A1
Synonyms:	LAAT-1; LAAT1; PQLC2
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 SC322481  
 GCGGCGGATCTGGACGTGGCGGCCCGCGCCGGGCTGAGTCACCAGGAGGGAGCTGTGGCC  
 GAGGACGCCGAGGCCTGGAGTGGGTGGTAGCCCCGAGCTGGGACGCTCCTCCCTCCACAA  
 TCTCCCCAGGTCTGCAGGGACCGAGGGCCCTACACTGCCTCCTCCCACGCCGTGCTTAGGC  
 CAGTTCATCAAAGCCTACAAGACGGGCAACATGGACCAGGCGCTGCCCTGTGGTTCTCTC  
 CTGGGCTGGATTGGCGGAGACTCCTGCAACCTCATCGGCTCCTTCCTTGTGTGACCAGCTG  
 CCCCTGCAGACCTACACGGCTGTGATTATGTCTTGGCAGACCTGGTGATGCTGACGCTG  
 TACTTTTTACTACAAGTTCAGGACGCGCCCTCTCTGTTGTCTGCCCCATCAACTCCGTG  
 CTGTTGTTCTCATGGGGATGGCGTGCGCCACACCGCTGCTGAGTGCTGTGGGCCCGTG  
 GCTGCCCTAGGGAAGCCTTCCGGGGCGGGCGCTCCTGTCCGTGGAGTCGGGCAGCAAG  
 CCCTTACCCCGCAGGAAGTCATTGGCTTCGTCATCGGCTCCATCTCCAGCGTGTGTAC  
 CTGCTTCCCGGCTGCCTCAGATCCGCACCAACTTCTCCGGAAGTCCACCCAGGGGATC  
 TCCTACTCTGTTCGCGCTGGTGATGCTGGGGAACACGCTGTATGGGCTGAGCGTGCTG  
 CTCAAAAACCCCGAGGAGGGCCAGAGCGAGGGCAGCTACCTGCTGCACCACCTGCCCTGG  
 CTTGTGGGCAGCCTGGGCGTGCTGCTCGACACCATCATCTCCATCCAGTTCCTGGTG  
 TACAGGCCGAGCACCCGCGCCTCGGAGCTTGAGCCCTCCTCCCAGCTGACCAGAACCA  
 GGCTGAGCGCAGGAGGACAGGCACCACCGGATGCCACACCAGGCAGGAGGAGGTGTGGAC  
 AGTGATGGTACGGCGGCCCTGCATCAGCCTGCGGGTGGCCTCTGGATCCTCCGTGGACCG  
 AACCGTCCCCCAGGAACACACCTTCAGGTAGACCCCGAAGCCTCAAGGCCGGGGCTGGA  
 GCGGAGACCCAGGGCCTCTCAGGAGACAGTGAGGCTGCCCTCCTACCACCTACCTCAT  
 TCTGCCTACTACCCAGGGGCCACAGCCACAGCCTGCTGGACTCAGGACTGTCCTGTCA  
 ACTCCAGACAACCTGAATAAACAGGCCGGGTACAGTGGCTCGCACCTGTAATCCTAGCACT  
 TTGGGAGGCCGAAGCGGGTGGACCACTTGACGTCGATTCGAGACCAGCCTGGCCCAAC  
 ATGGTGAAACCCATCTCTACTAAAAATACAAAATTAGCCAGGTGTGGTGGCACACATC  
 TGTAGTCCAGCTACTTGGGAGGCTGAGGCAGGAGAACTGTTTGAACCTGGGAGACAGAG  
 GTTGCGGTGAACCGAGATCGTGCCACTGTACTCCAGCCTGGGTGACAGAGTGAGACTCCG  
 TCTCAAAAAAATAAAAAAGATAACCGAGGAAACGGTACCTCCCCATGAAAAAAAAAAAAA  
 AAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM\_001040126
- 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).

<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_001040126.1, NP_001035215.1</u>
<b>RefSeq Size:</b>	1667 bp
<b>RefSeq ORF:</b>	681 bp
<b>Locus ID:</b>	54896
<b>UniProt ID:</b>	<u>Q6ZP29</u>
<b>Cytogenetics:</b>	1p36.13
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>Amino acid transporter that specifically mediates the pH-dependent export of the cationic amino acids arginine, histidine and lysine from lysosomes.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks an alternate segment in the 5' UTR and an alternate exon compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.</p>