

Product datasheet for **SC108105**

SLC43A2 (NM_152346) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC43A2 (NM_152346) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC43A2
Synonyms:	LAT4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC108105 sequence for NM_152346 edited (data generated by NextGen Sequencing)

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ATGGCGCCACCCTGGCCACTGCCCATCGGCGCCGCTGGTGGATGGCCTGCACGGCCGTG
CTGGAGAACCTCCTCTTCTCGGCAGTCCCTCGGGCTGGGGCTCGCTGCTCATCATGCTC
AAGTCAGAGGGCTTTTACTCCTACCTGTGTACCGAGCCAGAGAATGTCACCAATGGCACA
GTGGCGGCACAGCAGAGCCGGGCACGAGGAGGTGAGCTGGATGAACGGCTGGCTCAGC
TGCCAGGCCAGGACGAGATGCTAAATTTGGCCTTCACTGTGGGCTCCTTCTGTGCTG
GCCATCACCGTGCCCTGGGTATCGTCATGGACAAGTATGGCCCGAGGAAGCTCAGGCTG
CTGGGCAGCGCCTGCTTCGCGGTTTCTGCTTGTGATTGCGTACGGAGCAAGTAAACCA
AACGCTCTCTCCGTGCTCATCTTCATCGCCCTGGCTCTGAATGGCTTTGGTGGGATGTGT
ATGACCTTCACCTCATTAACTGCCCCAACATGTTGCGGACCTTCGGTCCACGTTTATT
GCCTTGATGATTGGTCTACGCTCCTCGGCAGTCACTTTCCAGGAATCAAGCTCATC
TATGATGCTGGTGTCTCCTTCATCGTCGCTCGTGGTCTGGGCCGGCTGCTCCGGGCTG
GTTTTCTCAACTGCTTCTTAACTGGCCCTTGAGCCCTCCCGGGCCGGAGGACATG
GACTACTCGGTGAAGATCAAGTTCAGCTGGCTGGGCTTTGACCACAAGATCACAGGAAG
CAGTTCTACAAGCAGGTACCACGGTGGGCCGGCGCTGAGTGTGGGCAGCTCCATGAGG
AGTGCCAAGGAGCAGGTGGCGCTGCAGGAGGGCCACAAGCTGTGCCTGTCCACCGTCGAC
CTGGAGGTGAAGTGCCAGCCGATGCCGCGAGTGGCCCCCTCCTTCATGCACAGCGTGTC
AGCCCCATCCTGTGCTCAGCCTGGTCAACATGTGCGTCACGCAGCTGCGGCTCATCTTC
TACATGGGGGCTATGAACAACATCCTCAAGTTCCTGGTCAAGCGGCGACCAGAAGACAGTT
GGCCTCTACACCTCCATCTTCGGCGTGTCCAGCTGCTGTGCCTGCTGACGGCCCCGTC
ATTGGCTACATCATGGACTGGAGGCTGAAGGAGTGTGAAGACGCTCCGAGGAGCCCGAG
GAGAAAGACGCCAACCAAGCGGAGAAAGAAAAGAAAGAGCGGGACCGGCAGATCCAGAAG
ATCACTAATGCCATGCGGGCCTTCGCTTACCAACCTGCTGCTCGTGGGCTTTGGGGTG
ACCTGCCTCATTCCCAACCTGCCTCTCCAGATCCTCTCCTTCATCCTGCACACAATCGTG
CGAGGATTCATCCACTCCGCTGTGCGGGGCTGTACGCTGCCGTGTACCCCTCCACCCAG
TTCGGCAGCCTCACGGGACTGCAGTCTCTGATCAGCGCGCTTTCGCCCTTCTGCAGCAG
CCGCTGTTTCTGGCCATGATGGTCTCTCCAGGGAGACCCTCTGTGGTGAACGTGGGG
CTGCTCCTTCTCAGCCTGCTGGGCTTCTGCCTCCCGCTTACCTGATCTGCTACCGGCGC
CAGCTGGAGCGGCAGCTGCAGCAGAGGCAGGAGGATGACAACTTCTCCTAAAAATCAAC
GGCTCGTCCAACCAGGAGGCCTTCGTGTAG
    
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Clone variation with respect to NM_152346.1

5' Read Nucleotide Sequence: >OriGene 5' read for NM_152346 unedited

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CACCAGCCGACACACGCCGNAGAGCCGGTGGTGCAGAGCCGGAGCCGGAGCCGGAGCC
GCGCCGCGCCGACCATGGCGCCACCCTGGCCACTGCCATCGGCGCCGCTGGTGGATG
GCCTGCACGGCCGTGCTGGAGAACCTCCTTCTCGGCAGTCTCCTGGGCTGGGGCTCG
CTGCTCATCATGCTCAAGTCAGAGGGCTTTTACTCCTACCTGTGTACCGAGCCAGAGAAT
GTCACCAATGGCACAGTGGGCGGCACAGCAGAGCCGGGCACGAGGAGGTGAGCTGGATG
AACGGCTGGCTCAGTGCAGGCCAGGACGAGATGCTAAATTTGGCCTTCACTGTGGGC
TCCTTCTGCTCAGTGCATCACCTGCCCTGGGTATCGTCATGGACAAGTATGGCCG
AGGAAGCTCAGGCTGCTGGGCAGCGCTGCTTCGCGGTTTCTGCTTGTGATTGCGTAC
GGAGCAAGTAAACCAACGCTCTCTCCGTGCTCATCTTCATCGCCCTGGCTCTGAATGGC
TTTGGTGGGATGTGTATGACCTTCACTCATTAACTGCCCCAACATGTTGCGGACCTT
CGGTCCACGTTTATTGCCTTGTGATTGGTCTACGCTNCTCGGCAGTCACTTTCCA
GGAATCAAGCTCATCTATGATGCTGGNTGTCTCCTTCATCGTCGCTCCTGCTGGTCTGGG
CGGCTGCTCCGGGCTGGTTNTCCTCACTGCTTCTTAACTGGCCCC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_152346 unedited CAGTATAAAACCTTT TTTTTTTTTCCCGGGGGAAAAATGGATTTTTTGGTTTTTAAAAAAAAGTCTAATAAAAAC TGGAAAAAAAATAACTAAAAATCCAAACCAACTTACCCTTTAAACCCCCCAGGGAG GGCTCAATATACCCTTTGGGGCAATCAAGGGGGGGGGTTGGTGGCCAAGCGGACGG GCCTCCCCGTTTTAGCTCCAGGGCCCCACGGACCCCCCGGCAGGGGGGGCTGGGGGC CTGTGGCCTTGGACAAACTCCTGGCCCCACCCAGGATGGCTCCTGGGCACTGGCCCAAC TGCAGGCCTGGGGCTCCCCCTGGGCAGGGGGGATAAGGGCTAACTCCTAAAGCCACC CCGACCCCAAAAACCTTTGGACCCACCCACGTCCCCACCCGGGCTGGACCTCCACGTT TGGCGGCCAAAGCCTTTGTCCACCTCCACAAAAACACCTGTGTGTTTTACGGGTGCC CTGGGGCGGGCCCCAAATTCCTTCAGGGGGCAACAAAACGAGGGGGACAGTAAAAAC GTGTCCGCGGCATTGGCCCTCGGGGAGGAGGCGAGGGGTCCACCCAGCCCGCTAAACCCT CTCCGGGGCATAACCCAGGTGGGCTTCTCCCCGGCCCTCAAAGGGTGGGGCAGGCC CTTGACGGGCAACAGGGGGCTGGGATTTACCAAGGATTTACCCCGACAACCCGAAG GGGGTCTTTCTTCTAAGGCAGCCTCAAGGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_152346
Insert Size:	3000 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:	<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_152346.1, NP_689559.1</u>
RefSeq Size:	3024 bp
RefSeq ORF:	1710 bp
Locus ID:	124935
UniProt ID:	<u>Q8N370</u>
Cytogenetics:	17p13.3
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a member of the L-amino acid transporter-3 or SLC43 family of transporters. The encoded protein mediates sodium-, chloride-, and pH-independent transport of L-isomers of neutral amino acids, including leucine, phenylalanine, valine and methionine. This protein may contribute to the transfer of amino acids across the placental membrane to the fetus. [provided by RefSeq, Mar 2016]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame exon in the coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.