

Product datasheet for **SC319047**

LAT3 (SLC43A1) (NM_003627) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	LAT3
Synonyms:	LAT3; PB39; POV1; R00504
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF: >OriGene sequence for NM_003627.4 GTCAGCAGCCGCCAGACTTCTGCCGAAGTCCGAGCCCCCTCCCGGGGCTGGAGGGGGGC
AAGCGGGTTCCGAGGTGCAAAAGCCTGGTCCCCGAGCCCTGCGGAGCTCGGGGCCAGCAT
GGCCCCCAGCTGCAACAGGCGTACCGAGGCGCTGGTGGATGGCTGCACGGCTGTGCT
GGAGAACCTCTTCTCTGCTGTACTCCTGGGCTGGGGCTCCCTGTTGATCATTCTGAA
GAACGAGGGCTTCTATTCCAGCACGTGCCAGCTGAGAGCAGCACCAACACCACCCAGGA
TGAGCAGCGCAGGTGGCCAGGCTGTACCAGCAGGACGAGATGCTCAACCTGGGCTTCAC
CATTGGTTCCTTCGTGCTCAGCGCCACCACCCTGCCACTGGGGATCCTCATGGACCGCTT
TGGCCCCGACCCGTGCGGCTGGTTGGCAGTGCCTGCTTCACTGCGTCCCTGCACCCTCAT
GGCCCTGGCCTCCCGGGACGTGGAAGCTCTGTCTCCGTTGATATTCTGGCGCTGTCCCT
GAATGGCTTTGGTGGCATCTGCCTAACGTTCACTTCACTCAGCTGCCCAACATGTTTGG
GAACCTGCGCTCCACGTTAATGGCCCTCATGATTGGCTCTTACGCTCTTCTGCCATTAC
GTTCCAGGAATCAAGCTGATCTACGATGCCGGTGTGGCCTTCGTGGTCATCATGTTTAC
CTGGTCTGGCCTGGCCTGCCTTATCTTTCTGAACTGCACCCTCAACTGGCCCATCGAAGC
CTTCTGCCCTGAGGAAGTCAATTACACGAAGAAGTCAAGCTGAGTGGGCTGGCCCT
GGACCACAAGGTGACAGGTGACCTCTTCTACACCCATGTGACCACCATGGGCCAGAGGCT
CAGCCAGAAGGCCCCAGCCTGGAGGACGTTTCGGATGCCTTCATGTCACCCAGGATGT
TCGGGGCACCTCAGAAAACCTTCTGAGAGGTCTGTCCCTTACGCAAGAGCCTCTGCTC
CCCCACTTCTGTGGAGCCTCCTCACCATGGGCATGACCCAGCTGCGGATCATCTTCTA
CATGGCTGCTGTGAACAAGATGCTGGAGTACCTTGTGACTGGTGGCCAGGAGCATGAGAC
AAATGAACAGCAACAAAAGGTGGCAGAGACAGTTGGGTTCTACTCCTCCGTCTTCGGGGC
CATGCAGCTGTTGTGCTTCTCACCTGCCCCCTCATTGGCTACATCATGGAAGTGGCGGAT
CAAGGACTGCGTGGACGCCCAACTCAGGGCACTGTCTCGGAGATGCCAGGGACGGGGT
TGCTACCAATCCATCAGACCACGCTACTGCAAGATCCAAAAGCTACCAATGCCATCAG
TGCTTTCACCTGACCAACCTGCTGCTTGTGGGTTTTGGCATCACCTGTCTCATCAACAA
CTTACACCTCCAGTTTGTGACCTTTGTCTGCACACCATTTGTCGAGGTTTCTTCCACTC
AGCCTGTGGGAGTCTCTATGCTGCAGTGTCCCATCCAACCACTTTGGGACGCTGACAGG
CCTGCAGTCCCTCATCAGTGTGTGCTTGCCTTGTCTCAGCAGCCACTTTTCATGGCGAT
GGTGGGACCCCTGAAAGGAGAGCCCTTCTGGGTGAATCTGGGCCTCCTGTATTCTCACT
CCTGGGATTCTGTGCTTCTACCTCTTCTATTACCGTGGCCGGCTCCAGCAGGAGTA
CGCCGCCAATGGGATGGGCCCACTGAAGGTGCTTAGCGGCTCTGAGGTGACCGCATAGAC
TTCTCAGACCAAGGGACCTGGATGACAGGCAATCAAGGCCTGAGCAACCAAAAGGAGTGC
CCCATATGGCTTTTCTACCTGTAACATGCACATAGAGCCATGGCCGTAGATTTATAAATA
CCAAGAGAAGTTCTATTTTGTAAAGACTGCAAAAAGGAGGAAAAAAACCTTCAAAAAC
GCCCCCTAAGTCAACGCTCCATTGACTGAAGACAGTCCCTATCCTAGAGGGGTGAGCTT
TCTTCTCCTTGGGTTGGAGGAGACAGGGTGCCTCTATCTCCTTCTAGCGGTCTGCCT
CCTGGTACCTCTTGGGGGATCGGCAACAGGCTACCCCTGAGGTCCCATGTGCCATGAG
TGTGCACACATGCATGTGTCTGTGTATGTGTGAATGTGAGAGAGACACAGCCCTCCTTTC
AGAAGGAAAGGGGCTGAGGTGCCAGCTGTGTCTGGGTTAGGGGTTGGGGTGGGGGCTCGCCCC
TTCCAGGGCCAGGAGGGCAGGTTCCCTCTCTGGTGTGCTGCTTGAAGTCTTAGAGGAA
ATAAAAAGGGAAGTGAGAAAAA

Restriction Sites: Please inquire

ACCN: NM_003627

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:	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_003627.4 , NP_003618.1
RefSeq Size:	2525 bp
RefSeq ORF:	1680 bp
Locus ID:	8501
UniProt ID:	O75387
Cytogenetics:	11q12.1
Protein Families:	Transmembrane
Gene Summary:	SLC43A1 belongs to the system L family of plasma membrane carrier proteins that transports large neutral amino acids (Babu et al., 2003 [PubMed 12930836]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.