

Product datasheet for **RC200563**

LAT3 (SLC43A1) (NM_003627) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAT3 (SLC43A1) (NM_003627) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAT3
Synonyms:	LAT3; PB39; POV1; R00504
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC200563 representing NM_003627
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCCACGCTGCAACAGGCGTACCGAGGCGCTGGTGGATGGCCTGCACGGCTGTGCTGGAGAACC
 TCTTCTTCTGCTGTACTCCTGGGCTGGGGCTCCCTGTTGATCATTCTGAAGAACGAGGGCTTCTATTC
 CAGCACGTGCCAGCTGAGAGCAGCACCAACACCACCCAGGATGAGCAGCGCAGGTGGCCAGGCTGTGAC
 CAGCAGGACGAGATGCTCAACCTGGGCTTACCATTGGTTCCTTCGTGCTCAGCGCCACCACCCTGCCAC
 TGGGGATCCTCATGGACCCTTTGGCCCCGACCCGTGCGGCTGGTTGGCAGTGCCTGCTTCACTGCGTC
 CTGCACCCTCATGGCCCTGGCCTCCCGGACGTGGAAGCTCTGTCTCCGTTGATATTCTGGCGCTGTCC
 CTGAATGGCTTTGGTGGCATCTGCCTAACGTTCACTTCACTCACGCTGCCAACATGTTTGGAACTGC
 GCTCCACGTTAATGGCCCTCATGATTGGCTTTACGCTCTTCTGCCATTACGTTCCAGGAATCAAGCT
 GATCTACGATGCCGGTGTGGCCTTCGTGGTCATCATGTTACCTGGTCTGGCCTGGCCTGCCTTATCTTT
 CTGAACCTGCACCCTCAACTGGCCATCGAAGCCTTTCCTGCCCTGAGGAAGTCAATTACACGAAGAAGA
 TCAAGCTGAGTGGGCTGGCCCTGGACCACAAGGTGACAGGTGACCTCTTCTACACCCATGTGACCACCAT
 GGGCCAGAGGCTCAGCCAGAAGGCCCCAGCCTGGAGGACGGTTCGGATGCCTTCATGTCACCCAGGAT
 GTTCGGGGCACCTCAGAAAACCTTCTGAGAGGTCTGTCCCTTACGCAAGAGCCTCTGCTCCCCACTT
 TCCTGTGGAGCCTCCTCACCATGGGCATGACCCAGCTGCGGATCATCTTCTACATGGCTGCTGTGAACAA
 GATGCTGGAGTACCTTGTACTGGTGGCCAGGAGCATGAGACAAATGAACAGCAACAAAAGTGGCAGAG
 ACAGTTGGGTTCTACTCCTCCGCTTCGGGGCCATGCAGCTGTTGTGCCTTCTCACCTGCCCTCATTG
 GCTACATCATGGACTGGCGGATCAAGGACTGCGTGGACGCCCAACTCAGGGCACTGTCTCGGAGATGC
 CAGGGACGGGTTGCTACCAAAATCCATCAGACCAGCTACTGCAAGATCCAAAAGCTCACCAATGCCATC
 AGTGCCTTACCCTGACCAACCTGCTGCTTGTGGGTTTTGGCATCACCTGTCTCATCAACAACCTACACC
 TCCAGTTTGTGACCTTTGCTGTCACACCATTTGTTGAGGTTTCTTCCACTCAGCCTGTGGGAGTCTCTA
 TGCTGCAGTGTTCATCCAACCACTTTGGGACGCTGACAGGCCTGCAGTCCCTCATCAGTGTGTGTTT
 GCCTTGTTCAGCAGCCACTTTTCATGGCGATGGTGGACCCCTGAAAGGAGAGCCCTTCTGGGTGAATC
 TGGGCCTCCTGCTATTCTACTCCTGGGATTCCTGTTGCCTTCTACCTTCTATTACCGTGCCCGGCT
 CCAGCAGGAGTACGCCCAATGGGATGGGCCACTGAAGGTGCTTAGCGGCTCTGAGGTGACCGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200563 representing NM_003627
 Red=Cloning site Green=Tags(s)

MAPTLQQAAYRRRWMACTAVLENLFFSAVLLGWGSLLIILKNEGFYSSTCPAESSTNTTQDEQRRWP
 QQDEMLNLGFTIGSFVLSATTLPLGILMDRFGPRPVRLVGSACFTASCTLMALASRDVEALSPLIFLALS
 LNGFGGICLFTSLTLPNMFNLRSTLMALMIGSYASSAITFPGIKLIYDAGVAFVIMFTWSGLACLIF
 LNCTLNWPIEAFPAPEEVNYTKIKLSGLALDHKVTGDLFYTHVTTMGQRLSQKAPSLGSDAFMSPQD
 VRGTSENLPEPERSVPLRKSLSPTFLWSLLTMGMTQLRIIFYMAAVNKMLEYLVTGGQEHETNEQQQKVAE
 TVGFYSSVFGAMQLLCLLTCPLIGYIMDWRIKDCVDAPTQGTVLGDARDGVATKSIIRPRYCKIQKLTNAI
 SAFTLTNLLL VGFGITCLINNLHLQFVTFVLTHTIVRGFFHSACGSLYAAVFPNHFGLTGLQSLISAVF
 ALLQQPLFMAMVGPLKGEFPVWNLGLLLFSLGFLLPYLYFYRRLQEQEYAANGMGLKVLGSEVTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8112_a11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_003627

ORF Size: 1677 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003627.6](#)

RefSeq Size: 2555 bp

RefSeq ORF: 1680 bp

Locus ID: 8501

UniProt ID: [O75387](#)

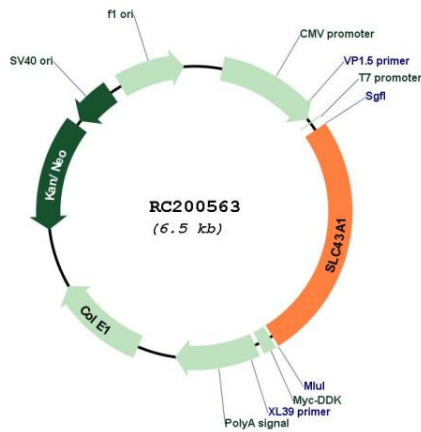
Cytogenetics: 11q12.1

Protein Families: Transmembrane

MW: 61.5 kDa

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]

Product images:



Circular map for RC200563