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Product datasheet for SC216953

LAT2 (SLC7A8) (NM_012244) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	LAT2 (SLC7A8) (NM_012244) Human 3' UTR Clone
Symbol:	LAT2
Synonyms:	LAT2; LPI-PC1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_012244
Insert Size:	1912 bp

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Insert Sequence:

>SC216953 3'UTR clone of NM_012244
The sequence shown below is from the reference sequence of NM_012244. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGGACGTGGCGGGGCAGCCCCAGCCCTGAGGACCACCATTCCCTGGCTACTCTCTCCTTCCTCCCCCT
TTTATCCTACCTCCCTGCCTTGGTCCTGCCAACACATGCGAGTACACACACACCCCTCTCTCTGCTTTT
GTCAGGCAGTGGTAGGACTTTGGTGTGGGTGGTGAGAAATTGTAAACAAAAACTGACATTCATACCCAA
AGAACCAGCCTCTCACCCCAGGGTCCATGTCCCAGGCCCCACTCCAGTGCTGCCCACACTCCCAGCTGC
TGGAGGAGAGGGGAGATGCCAAGGTGCCCTGCAGGACCTCCCTCCGGGCCACACCCTCAGCTGCCTCTT
CAGGAACCGGAGCTCATTACTGCCTTCCCTCCCAGGGAGGCCCCTTCAGAGAGGAGAGGCCACAGGAGC
TGCATTGTGGGGGGACAGGCTCAAGCAATTCTGTCCCCATCAAGGGGTCAGCTGGAGAGACCCAAGACC
CTATCTGTTCACCAGGGACCCAAAATCCAAGGGGATGCTTCCCTCTGCCCTCTTTCCTGCCCCTCCCCA
TCATACCTGCACCCACCCCAGCCAGGGCTCCCTGTCCAGAATTCGGTTCTCCTCAGGACGCCAACTCCC
AGAGCTAAGGACCAAGGAGAAGAACAGCCTCTCCACCCCCAAGCCAGGCGGTTGAGGAACATATTGAGA
AAGGTTCAGATTGCAGAAACCCAGCCCTGCCCCTGCCTCCTGCATCCAGCCCCCAACATGGTGCCAAAG
CTTCCAGAAGCCAAAAAGCTTCTGATTTTTAAGGTAGTGGGCATCTCTCTCCTAATGACGAAGCTGCTC
AGCAACTCCACCTGCCCGCCGCAGGAAGGAGCAGTCCCCTGCTATCCCTGCAGCCACTCCCAGCACACC
CGCACACAGCCAGCACCACCGCCCCCACCGTGCACTTCTCCTCTCTGGGCCTTGGCTTGGGACCAGGTA
CGAAGGATCCCCAAGCCCTTCAGGCCTGAGATCAGAGCCAGATCAGCCTTAAGTCACCTCCCATCCAAG
AACTTGGCCTAAAAATACTCCCCTATTTCTAACCCTCAGGACGGATCTGATATTAAATGCCTTCCCTGG
GAGGAAGGGTGCTTTCCCCCTCCCTAGAGGTGCCCATTCCATACCCTGGGAGACTGAGGAGAGCATTGG
CTGAAGCCCAGTTCCTTTCCCATCCATCCCCAACTCCAATAATCCCCCACTCCTCGCAGGTCTCAGTGT
CATGCTGTCTTGGGGCAGGGTGAAAGGGTAGTGGCAGCAGGGCGCCCACTCTGGAGATCCTCAAAAAAG
GCCCTCCTCTGTGGCTGGCAGCCTCTGACCTTTCCCTGGGCTTCAAAGGAAGGCTATGGAGTTTGCTGT
GGGCCCTGCAACCTTCCCAGCCACTCCTGCTGCACTAAGGACTTAGGATCCTTTTATCACAAATCGGGA
TTCTCTCCCCCACCCCGAATTCTGTCTGCTTAAACTGGAATACACAGGAGCCCTTCCTGGCCTGGATGG
TGTCTCCCAGCTTCCCCGCCCAGCTTGCCCACCCCATAGTTGGTGAGATGCCAAGTTTGGTCTGAGTTG
TGACCCCTTCAGAGTAGATGCCCGGCAGGCTGGGGTTGGCCCCTGGAGGGTCAGGGGACCATCTTCTTA
TTCCCTCTTTTCTCATTCCTCCAACTTCCTCCCCTCCTTCAATTATTTTTTTGTAAAGTTGATGCCTTA
CTTTTTGGATAAATATTTTTGAAGCTGGTATTTCTATTTCTTTTGGATTTTTTTTAATGTAAGGTTGTT
TTGGGGGATGGAGTTAGAACCTTAATGATAATTTCTTTCGTTTGGTGTAGGTTTTAGAGATTTGTTTTG
TGGAGAGGTTTTTTTCTTTTGATGTAATAAAATTTAAAATGGAAATGAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_012244.4

Summary:	Sodium-independent, high-affinity transport of small and large neutral amino acids such as alanine, serine, threonine, cysteine, phenylalanine, tyrosine, leucine, arginine and tryptophan, when associated with SLC3A2/4F2hc. Acts as an amino acid exchanger. Has higher affinity for L-phenylalanine than LAT1 but lower affinity for glutamine and serine. L-alanine is transported at physiological concentrations. Plays a role in basolateral (re)absorption of neutral amino acids. Involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity. Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Plays an essential role in the reabsorption of neutral amino acids from the epithelial cells to the bloodstream in the kidney.[UniProtKB/Swiss-Prot Function]
Locus ID:	23428
MW:	70.5