

Product datasheet for RC232595

LIPT1 (NM_001204830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT1 (NM_001204830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LIPT1
Synonyms:	LIPT1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232595 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTCAGCAGCTGGCT
TAAAAAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGT
GGAAGACTGGATCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTGGCAGAATTCTCC
TCTGTTGAATTGGTAGGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTA
TAAACTGGCTCGGAGAAGAAGTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTT
CTTTACAACAAAAAAGTATGATAGAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTC
CAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACTTGATGGACAGTTTAAATCTCAG
GAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCACCATTGCACCTTTATTATGTAGTACTGATGGGAC
GTTCTTGTCTTTGCTAAAGAGCCCTTACCAAGGATCAGGAGCAATGCCACTGCTAGCATACCTTCC
TTAGTGAAAAATCTTTGGAAAAGGATCCCACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTACAG
AGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCAACGGATGAGACACTGTTTCC
TGAATAAATAGCAAAGCCAAAGAACTGCAAACTTGGGAGTGGATATATGGCAAACTCCAAAGTTAGT
ATAAATACTTCTTTTATGTGTTATATGAACAGTCACACTTGGAAATTAAGTATTCATAGACATAAAGA
ATGGAAGAATTGAAATTTGTAATTGAAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACAAATT
AAATTCAGTCTTATTGGCAGTAAGTTTGGCCAACTGAAACTACCATGCTAACAAATATATTACTTAGA
ACATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGAATAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232595 protein sequence
Red=Cloning site Green=Tags(s)

MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGLI LQSI SINDVYQNLAVEDWIHDHNMNLEGPILFFWQNSP
 SVVIGRHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINL TFFTTKKKYDRMENLKLIVRALNAV
 QPQLDVQATKRFDLLLDGQFKISGTASKIGRTTAYHHCTLLCSTDGTFLSLLKSPYQGIRSNATASIPS
 LVKNLLEKDPTLTCEVLMNAVATEYAAYHQIDNHIHLINPTDETLPFGINSKAKELQTWEWIYGKTPKFS
 INTSFHVLYEQSHLEIKVFIDIKNGRIEICNIEAPDHWLPLEIRDKLNSSLIGSKFCPTETTMLTNILLR
 TCPQDHKLNKWNILCEKIKGIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6557_g10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001204830

ORF Size: 1119 bp

OTI Disclaimer: 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.

RefSeq: [NM_001204830.1](#), [NP_001191759.1](#)

RefSeq Size: 1627 bp

RefSeq ORF: 1122 bp

Locus ID: 51601

UniProt ID: [Q9Y234](#)

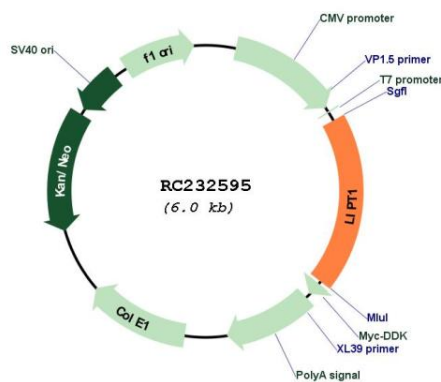
Cytogenetics: 2q11.2

Protein Pathways: Lipoic acid metabolism, Metabolic pathways

MW: 42.5 kDa

Gene Summary: The process of transferring lipoic acid to proteins is a two-step process. The first step is the activation of lipoic acid by lipoate-activating enzyme to form lipoyl-AMP. For the second step, the protein encoded by this gene transfers the lipoyl moiety to apoproteins. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 13. Read-through transcription also exists between this gene and the neighboring downstream mitochondrial ribosomal protein L30 (MRPL30) gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC232595