

Product datasheet for RC216737

LIPT1 (NM_015929) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | LIPT1 (NM_015929) 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: | >RC216737 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTTCCAGCAGCTGGCT
TAAAAAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGT
GGAAGACTGGATCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTGGCAGAATTCTCC
TCTGTTGAATTGGTAGGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTA
TAAACTGGCTCGGAGAAGAAGTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTT
CTTTACAACCAAAAAAGTATGATAGAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTC
CAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACTTGATGGACAGTTTAAATCTCAG
GAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCACCATTGCACCTTTATTATGTAGTACTGATGGGAC
GTTCTTGTCTTTGCTAAAGAGCCCTTACCAAGGGATCAGGAGCAATGCCACTGCTAGCATACCTTCC
TTAGTGAAAAATCTTTTGGAAAAGGATCCCACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTACAG
AGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCAACGGATGAGACACTGTTTCC
TGGAATAAATAGCAAAGCCAAAGAAGTCAAACCTGGGAGTGGATATATGGCAAACTCCAAAGTTTAGT
ATAAATACTTCTTTTCAATGTTTATATGAACAGTCACACTTGGAAATTAAGTATTCATAGACATAAAGA
ATGGAAGAATTGAAATTTGTAATTGAAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACAAATT
AAATTCAGTCTTATTGGCAGTAAGTTTGGCCAACTGAAACTACCATGCTAACAAATATATTACTTAGA
ACATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATAAGGGAATAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC216737 protein sequence
Red=Cloning site Green=Tags(s)

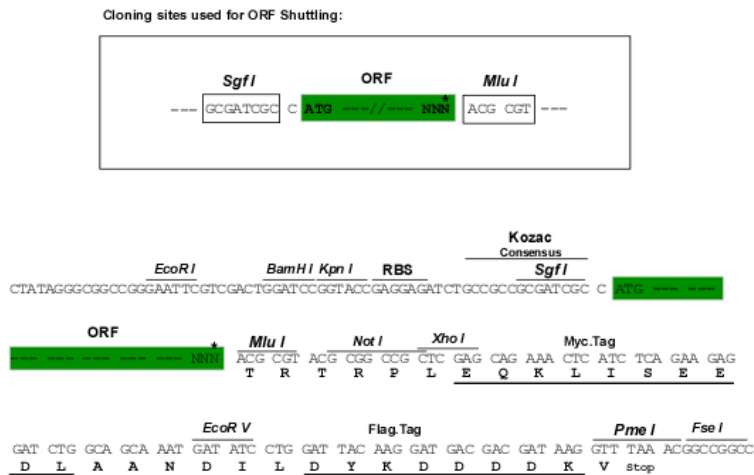
MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGLI LQSI SINDVYQNLAVEDWIHDHNMNLEGPILFFWQNSP
 SVVIGRHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINL TFFT KKKYDRMENLKLIVRALNAV
 QPQLDVQATKRFDLLLDGQFKISGTASKIGRTTAYHHCTLLCSTDGTFLSLLKSPYQGIRSNATASIPS
 LVKNLLEKDPTLTCEVLMNAVATEYAAYHQIDNHIHLINPTDETLPFGINSKAKELQTWEWIYGKTPKFS
 INTSFHVLVEQSHLEIKVFIDIKNGRIEICNIEAPDHWLPLEIRDKLNSSLIGSKFCPTETTMLTNILLR
 TCPQDHKLNSKWNILCEKIKGIM

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_015929

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_015929.4](#)

RefSeq Size: 1456 bp

RefSeq ORF: 1122 bp

Locus ID: 51601

UniProt ID: [Q9Y234](#)

Cytogenetics: 2q11.2

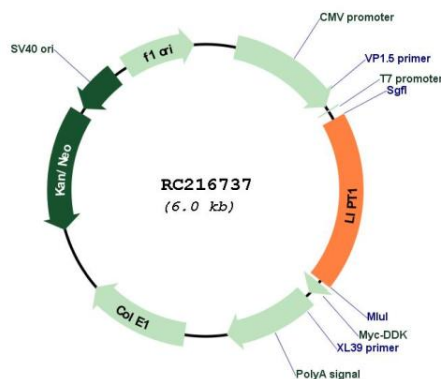
Domains: BPL_LipA_LipB

Protein Pathways: Liponic acid metabolism, Metabolic pathways

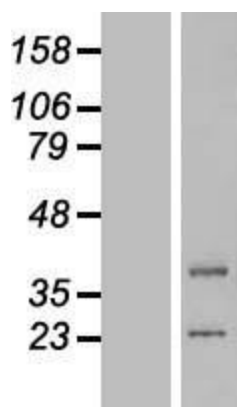
MW: 42.5 kDa

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 RC216737



Western blot validation of overexpression lysate (Cat# [LY408046]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC218958] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).