

## Product datasheet for RC218958

### LIPT1 (NM\_145197) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT1 (NM_145197) 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:	>RC218958 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTTCCAGCAGCTGGCT  
TAAAAAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGT  
GGAAGACTGGATCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTGGCAGAATTCTCC  
TCTGTTGAATTGGTAGGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTA  
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CAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACTTGATGGACAGTTTAAATCTCAG  
GAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCACCATTGCACCTTTATTATGTAGTACTGATGGGAC  
GTTCTTGTCTTTGCTAAAGAGCCCTTACCAAGGGATCAGGAGCAATGCCACTGCTAGCATACCTTCC  
TTAGTGAAAAATCTTTGGAAAAGGATCCCACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTACAG  
AGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCAACGGATGAGACACTGTTTCC  
TGGAATAAATAGCAAAGCCAAAGAACTGCAAACCTGGGAGTGGATATATGGCAAACTCCAAAGTTTAGT  
ATAAATACTTCTTTTCATGTGTTATATGAACAGTCACACTTGGAAATTAAGTATTCATAGACATAAAGA  
ATGGAAGAATTGAAATTTGTAATTGAAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACAAATT  
AAATTCAGTCTTATTGGCAGTAAGTTTGGCCAACTGAAACTACCATGCTAACAAATATATTACTTAGA  
ACATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGAATAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC218958 protein sequence  
Red=Cloning site Green=Tags(s)

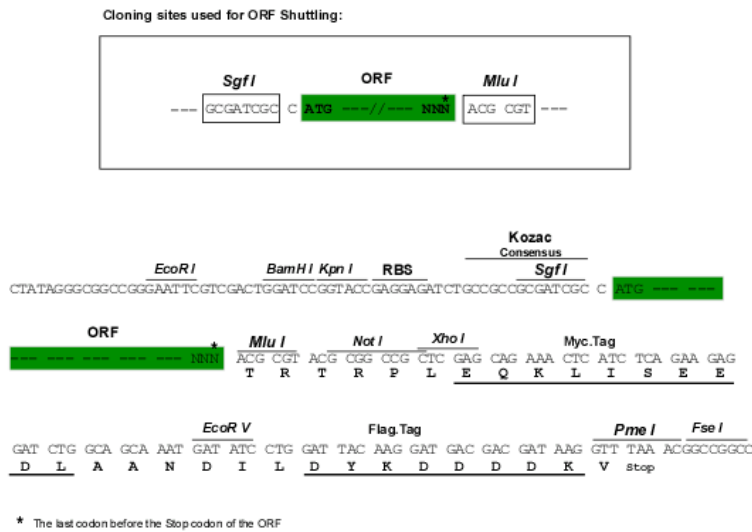
MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGLI LQSI SINDVYQNLAVEDWIHDHNMNLEGKPI LFFWQNSP  
SVVIGRHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINL TFFTTKKKYDRMENLKLIVRALNAV  
QPQLDVQATKRFDLLLDGQFKISGTASKIGRTTAYHHCTLLCSTDGTFLSLLKSPYQGIRSNATASIPS  
LVKNLLEKDPTLTCEVLMNAVATEYAAYHQIDNHIHLINPTDETLPFGINSKAKELQTWEWIYGKTPKFS  
INTSFHVLVEQSHLEIKVFIDIKNGRIEICNIEAPDHWLPLEIRDKNLSSLI GSKFCPTETTMLTNILLR  
TCPQDHKLNKWNILCEKIKGIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6557\\_g10.zip](https://cdn.origene.com/chromatograms/mk6557_g10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145197

**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\\_145197.3](#)

**RefSeq Size:** 1584 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 51601

**UniProt ID:** [Q9Y234](#)

**Cytogenetics:** 2q11.2

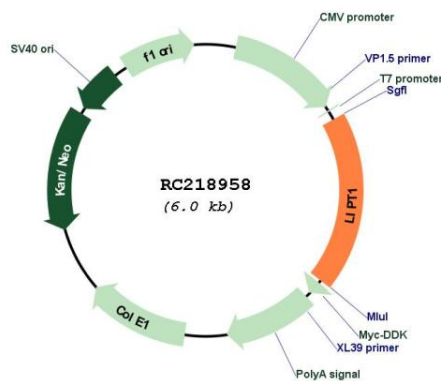
**Domains:** BPL\_LipA\_LipB

**Protein Pathways:** Liponic acid metabolism, Metabolic pathways

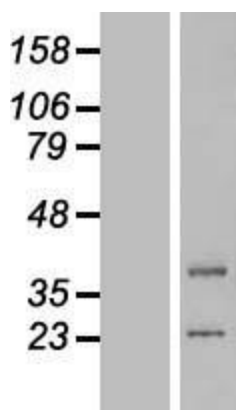
**MW:** 42.5 kDa

**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 RC218958



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]).