OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC227410

LIPT2 (NM_001144869) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT2 (NM_001144869) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LIPT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227410 representing NM_001144869
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCAACCCGCCGTTCGGTTGGTGCGCCTGGGTCGGGTGCCGTACGCCGAGCTACTGGGGCTGCAGG
ACCGCTGGCTGCGGCGGCTGCAGGCCGAGCCAGGCATTGAGGCCCCGTCGGGGACTGAGGCGGGCGCGCT
CCTGCTCTGCGAGCCCGCGGGGCCCGTGTATACGGCCGGGCTGCGCGGCGGCCTGACGCCCGAGGAAACT
GCGCGGCTACGGGCCTTGGGCGCCGAGGTGCGCGTCACAGGCCGCGGTGGCCTGGCCACCTTCCACGGCC
CGGGCCAGCTGCTTTGCCACCCGGTACTCGACCTGCGGCGTCTCGGCCTGCGCTTGCGCATGCACGTAGC
GTCGCTGGAGGCGTGCGCCGTGCGCCTGTGCGAGCTCCAGGGCCTGCAGGACGCCCGCGCGCGGCCCCCG
CCCTACACTGGCGTCTGGCTAGACGATCGCAAGATCTGCGCGATCGGAGTCCGCTGTGGAAGGCACATCA
CATCCCACGGCCTGGCTCTCAACTGCTCTACCGACCTCACGTGGTTTGAGCACATCGTGCCCTGTGGACT
GGTTGGGACAGGCGTCACTTCCTTGAGTAAGGAGCTCCAGAGGCACGTCACCGTGGAAGAAGTAATGCCA
CCTTTCCTTGTGGCCTTTAAGGAGATCTACAAGTGCACACTGATCTCAGAGGACAGCCCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227410 representing NM_001144869
Red=Cloning site Green=Tags(s)

MRQPAVRLVRLGRVPYAELLGLQDRWLRRLQAEPGIEAPSGTEAGALLLCEPAGPVYTAGLRGGLTPEET
ARLRALGAEVRVTGRGGLATFHGPGQLLCHPVLDLRRLGLRLRMHVASLEACAVRLCELQGLQDARARPP
PYTGVWLDDRKICAIGVRCGRHITSHGLALNCSTDLTWFEHIVPCGLVGTGVTSLSKELQRHVTVEEVMP
PFLVAFKEIYKCTLISEDSPN

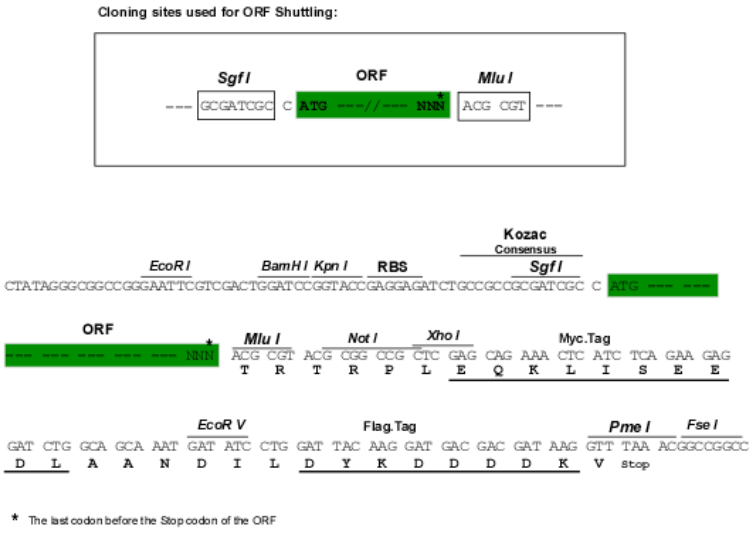
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

View online »

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001144869

ORF Size: 693 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.

RefSeq: NM_001144869.3

RefSeq ORF: 696 bp

Locus ID: 387787

UniProt ID: A6NK58

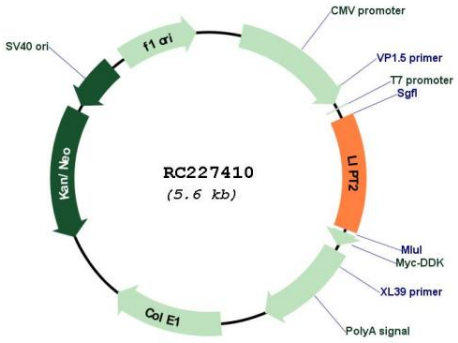
Cytogenetics: 11q13.4

Protein Pathways: Lipoic acid metabolism, Metabolic pathways

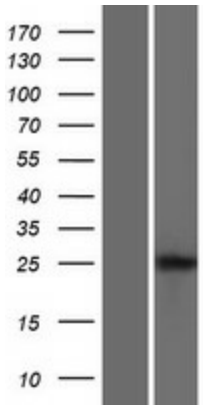
MW: 25 kDa

Gene Summary: This gene encodes a mitochondrial protein that catalyzes the transfer of octanoic acid to lipoate-dependent enzymes such as octanoyl-ACP. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RC227410



Western blot validation of overexpression lysate (Cat# [LY428532]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227410 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).