

Product datasheet for **RG227410**

LIPT2 (NM_001144869) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LIPT2 (NM_001144869) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LIPT2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227410 representing NM_001144869
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCAACCCGCCGTTTCGGTTGGTGCCTGGGTGGGTGCCGTACGCCGAGCTACTGGGGCTGCAGG
ACCGCTGGCTGCGGGCGCTGCAGGCCGAGCCAGGCATTGAGGCCCGCTCGGGGACTGAGGCGGGCGCGCT
CCTGCTCTGCGAGCCCGGGGCCCGTGTATACGGCCGGCTGCGCGCGGCCTGACGCCGAGGAACT
GCGCGGCTACGGGCTTTGGCGCCGAGGTGCGCGTCACAGGCCGCGGTGGCTGGCCACCTTCCACGGCC
CGGGCCAGCTGCTTGGCACCCGGTACTGCACCTGCGGGCTCTCGGCTGCGCTTGGCATGCACGTAGC
GTCGCTGGAGGCGTGCAGCGTGCCTGTGCGAGCTCCAGGGCCTGCAGGACGCCCGCGCGGCCCGCC
CCCTACACTGGCGTCTGGCTAGACGATCGCAAGATCTGCGCGATCGGAGTCCGCTGTGGAAGGCACATCA
CATCCCACGGCCTGGCTCTCAACTGCTCTACCGACCTCACGTGGTTTGGACACATCGTGCCTGTGGACT
GGTTGGGACAGGCGTCACTTCTTGAGTAAGGAGCTCCAGAGGCACGTACCGTGGAAGAAGTAATGCCA
CCTTCTGTGGCCTTAAAGGAGATCTACAAGTGCACTGATCTCAGAGGACAGCCCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227410 representing NM_001144869
Red=Cloning site Green=Tags(s)

MRQPAVRLVRLGRVPYAELLGLQDRWLRLQAEPGIEAPSGTEAGALLLCEPAGPVYTAGLRGGLTPEET
ARLRALGAEVVRTGRGLATFHGPGQLLCHPVLDLRRLGLRLRMHVASLEACAVRLCELQGLQDARARPP
PYTGVWLLDRKICAIGVRCGRHITSHGLALNCSTDLTWFHEHIVPCGLVGTGVTSLSKELQRHVTVVEVMP
PFLVAFKEIYKCTLISESPN

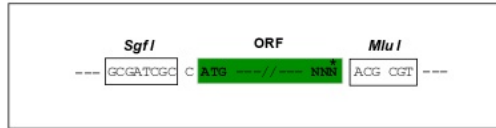
TRTRPLE - GFP Tag - V



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Chromatograms: https://cdn.origene.com/chromatograms/ja2496_g07.zip
Restriction Sites: SgfI-MluI
Cloning Scheme:

Cloning sites used for ORF Shutting:



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                                     Kozac
                                     Consensus
                                     SgfI   AscI
EcoRI   BamHI KpnI   RBS
CTATAGGCGCGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII  NheI  RsrII  MluI   NotI   XhoI   GFP Tag
CAAGCTTAAGTACTAGTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG  AGC GAC --- ---
                                     T  R  T  R  P  L  E  M  E  S  D  -  -  -

                                     PmeI   FseI
--- --- GAA GAA AGA GTT TAA ACGGCCGCGCCGGAGCT
- - - E  E  R  V  Stop
    
```

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 Size: 960 bp

RefSeq ORF: 696 bp

Locus ID: 387787

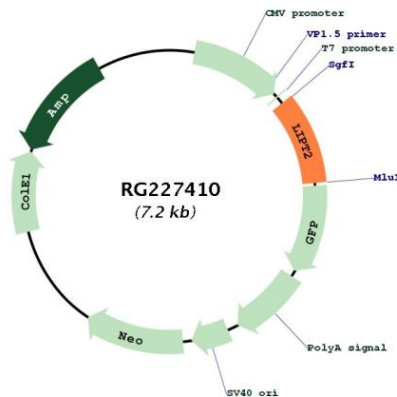
UniProt ID: [A6NK58](#)

Cytogenetics: 11q13.4

Protein Pathways: Lipoic acid metabolism, Metabolic pathways

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 RG227410