

Product datasheet for **SC325636**

LIPT2 (NM_001144869) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: LIPT2 (NM_001144869) Human Untagged Clone
Tag: Tag Free
Symbol: LIPT2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC325636 representing NM_001144869.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

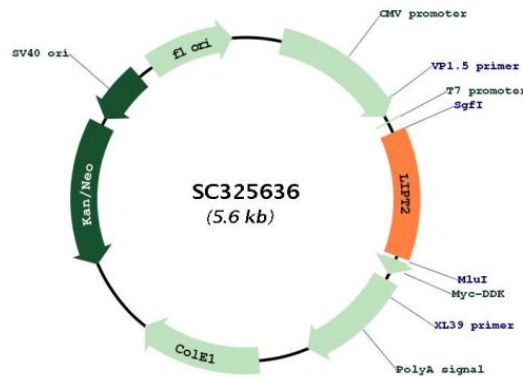
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGCAACCCGCCGTTTCGGTTGGTGCCTGGGTGGGTGCCGTACGCCGAGCTACTGGGGCTGCAG
GACCGCTGGCTGCGGGCGGCTGCAGGCCGAGCCAGGCATTGAGGCCCGTGGGGACTGAGGCGGGCGCG
CTCCTGCTCTGCGAGCCCGCGGGGCCGTGTATACGGCCGGGTGCGCGGGCCGTGACGCCGAGGAA
ACTGCGCGGCTACGGGCTTGGGCGCCGAGGTGCGCGTCACAGGCCGCGGTGGCTGGCCACCTCCAC
GGCCCGGGCCAGCTGCTTTGCCACCCGGTACTCGACCTGCGGCGTCTCGGCTGCGCTTGGCATGCAC
GTAGCGTCGTTGGAGCGTGCCTGCGGCTGTGCGAGCTCCAGGGCTGCAGGACGCCCGCGCGCGG
CCCCGCCCTACACTGGGCTCTGGCTAGACGATCGCAAGATCTGCGCGATCGGAGTCCGCTGTGGAAGG
CACATCACATCCACGGCCTGGCTCTCAACTGCTCTACCGACCTCACGTGGTTTGAGCACATCGTGCC
TGTGGACTGGTTGGGACAGGCGTCACTTCTTGTAGTAAGGAGCTCCAGAGGCACGTACCGTGGAAAGAA
GTAATGCCACCTTCTTGTGGCCTTTAAGGAGATCTACAAGTGACACTGATCTCAGAGGACAGCCCC
AACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001144869

Insert Size: 696 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001144869.1](#)

RefSeq Size: 960 bp

RefSeq ORF: 696 bp

Locus ID: 387787

UniProt ID: [A6NK58](#)

Cytogenetics: 11q13.4

Protein Pathways: Lipoic acid metabolism, Metabolic pathways

MW: 25.2 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]
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.