

Product datasheet for SC111284

LIPT1 (NM_145199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT1 (NM_145199) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIPT1
Synonyms:	LIPT1D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111284 sequence for NM_145199 edited (data generated by NextGen Sequencing)

```

ATGCTGATCCCATTTCATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGTCCCA
GCAGCTGGCTTTAAAAAACAGTAAAAATGGGCTCATTTCACAGTCAATTTCCAATGAT
GTCTATCAAAATCTGGCTGTGGAAGACTGGATCCATGACCATATGAATCTAGAAGGCAAA
CCAATTCTATTCTTTGGCAGAATTCTCCCTCTGTTGTAATTGGTAGGCATCAAAATCCT
TGGCAGGAATGTAACTGAATCTAATGAGAGAAGAAGGTATAAACTGGCTCGGAGAAGA
AGTGGAGGAGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTTCTTTACAACC
AAAAAAAAGTATGATAGAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTC
CAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACTTGATGGACAGTTT
AAAATCTCAGGAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCACCATTGCACCTTA
TTATGTAGTACTGATGGGACGTTCTGTCTTCTTGCTAAAGAGCCCTTACCAAGGGATC
AGGAGCAATGCCACTGCTAGCATACCTTCTTAGTGAAAAATCTTTTGGAAAAGGATCCC
ACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTACAGAGTATGCTGCCTATCATCAA
ATTGATAATCACATTCACCTAATAAACCAACGGATGAGACACTGTTTCCTGGAATAAAT
AGCAAAGCAAAGAAGTGCAAACTTGGGAGTGGATATATGGCAAACTCCAAAGTTTAGT
ATAAATACTTCCTTTTATGTGTTATATGAACAGTCACTTGGAAATTAAGTATTTCATA
GACATAAAGAATGGAAGAATTGAAATTTGTAATATTGAAGCACCTGATCATTGGTTGCCA
TTGGAAATACGTGACAAATTAATCAAGTCTTATTGGCAGTAAGTTTGGCCAACTGAA
ACTACCATGCTAACAAATATATTACTTAGAACATGTCCACAAGACCACAACTAAACAGT
AAATGGAATATTCTGTGAAAAATTAAGGAATAATGTGA

```

Clone variation with respect to NM_145199.2
565 t=>c;711 t=>c



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145199 unedited
TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGTACGAGGCCGTGGGTACGAC
CGGAAGCCGCAGCATGCTGATCCCATTTCAATGAAGAATTGCTTCCAGTTACTTTGTAA
CTGCCAGGTCCCAGCAGCTGGCTTTAAAAAACAGTAAAAATGGGCTCATTTTACAGTC
AATTTCCAATGATGTCTATCAAATCTGGCTGTGGAAGACTGGATCCATGACCATATGAA
TCTAGAAGGCCAAACCAATTCTATTCTTTTGGCAGAATTCTCCCTCTGTTGTAATTGGTAG
GCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTATAAAACT
GGCTCGGAGAAGAAGTGGAGGAGAACAGTCTACCATGATATGGTAATATCAATTTGAC
TTTCTTTACAACCAAAAAAAGTATGATAGAATGGAAAATCTGAAATTAATTGTGAGAGC
TCTGAATGCTGTCCAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACT
TGATGGACAGTTTAAATCTCAGGAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCA
CCATTGCACTTTATNATGTAGTACTGTAGGGGACGTTCCCTGGTCTTCTTTGTAAAG
AGCCCTCCANNAGGGATCAGGAGCATGCCACTGCTAGCATACCTTCCTTAGTAAAAAT
CTTTTGGAAAAAGGATCCCCTGACCTGNNNGAGTACTAATGGAATGGCTGGTGCTA
CAGAAGTATGCTGCCTATCATCANATTGATAATCACATTCACCTAATAACCCAACGGATG
ANACACTGGNTTCCCTGGAATAAATAGCNAGCCAACTGCTNTTTGGGNAGAGGGGGATT
TTTGCAAACCTCCCAGGGTTAGATAAACTTCTTCTCGGGGGATAAGGAGACAGACA
CTGNAAAATTAAGGTTCTACTTAGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_145199 unedited
CTTGAACGCCCGTTTCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTATTTCTAATTGAA
ACTGTATTAAGACATTTACTTGGAAATCACATTATCCCTTAATTTTTTTCACAGAGAATAT
TCCATTTACTGTTTAGTTTGTGGTCTTGTGGACATGTTCTAAGTAATATATTTGTTAGCA
TGGTAGTTTCAGTTGGGCAAACTTACTGCCAATAAGACTTGAATTTAATTTGTCACGTA
TTTCCAATGGCAACCAATGATCAGGTGCTTCAATATTACAAATTTCAATCTTCCATTCT
TTATGTCTATGAATACTTTAATTTCCAAGTGTGACTGTTTCATATAACACATGAAAGGAAG
TATTTATACTAACTTTGGAGTTTTGCCATATATCCACTCCCAAGTTTGCAGTTCTTTGG
CTTTGCTATTTATTCCAGGAAACAGTGTCTCATCCGTTGGGTTTATTAGGTGAATGTGAT
TATCAATTTGATGATAGGCAGCATACTCTGTAGCAACAGCATTTCATTAGTACTTCACAGG
TCAGAGTGGGATCCTTTTCCAAAAGATTTTTCACTAAGGAAGGTATGCTAGCAGTGGCAT
TGCTCCTGATCCCTTGGTAAGGGCTCTTTAGCAAAGAAGACAGGAACGTCCCATCAGTAC
TACATAATAAAGTGAATGGTGATAGGCAGTAGTCCGGCCGATCTTAGAGCTGTTTCTGA
GATTTAAAAGTGCATCAAGTAAAGGTCAAATCTTTTGGTAGCCTGCACATCCAGCTGGG
GTTGGACAGCATTAGAGCTCTCACAATTAATTTAGATTTTCCATCCTACCATAACTTT
TTTTGGTTGAAAGGAAGTACATTGTATTACCATATCATGGAACTTGCCTCCTCCAT
TCTTTCTCGAAGCACGTTTATACTTCTTTTTTCATAAATCCAGGTACTTTCTGC

Restriction Sites:

NotI-NotI

ACCN:

NM_145199

Insert Size:

1250 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_145199.1 , NP_660200.1
RefSeq Size:	1288 bp
RefSeq ORF:	1122 bp
Locus ID:	51601
UniProt ID:	Q9Y234
Cytogenetics:	2q11.2
Domains:	BPL_LipA_LipB
Protein Pathways:	Lipoic acid metabolism, Metabolic pathways
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) lacks an exon in the 5' UTR, compared to variant 1. Variants 1 and 3-6 all encode the same protein.</p>