

## Product datasheet for **SC321135**

### LIPT1 (NM\_145198) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT1 (NM_145198) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIPT1
Synonyms:	LIPT1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_145198.1  
GGTTGCTCGGGTTCGTATGACGCACTTTCCAGCTCGAGCCCTCACGAGGCCGTGGGTAC  
GACCGGAAGCCGACACTGAATCTCGCTCTGTTGCCAGCCCATCTCGGCCACTGAAAC  
CTCCACCTCCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACA  
GGCGCCTGCCACCACGCCAGCATGCTGATCCATTTTCAATGAAGAATTGCTTCCAGTT  
ACTTTGTAACAGTCCAGGTCAGCAGCTGGCTTTAAAAAACAGTAAAAAATGGGCTCAT  
TTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGTGGAAGACTGGATCCATGA  
CCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTGGCAGAATTCTCCCTCTGTTGT  
AATTGGTAGGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGG  
TATAAACTGGCTCGGAGAAGAAGTGGAGGAGGAACAGTCTACCATGATATGGGTAATAT  
CAATTTGACTTTCTTTACAACCAAAAAAAGTATGATAGAATGGAAAATCTGAAATTAAT  
TGTGAGAGCTCTGAATGCTGTCCAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGA  
CCTTTTACTTGATGGACAGTTTAAAAATCTCAGGAACAGCTTCTAAGATCGGCCGGACTAC  
TGCCATACACCATTGCACCTTTATATGTAGTACTGATGGGACGTTCTTGTCTTTGCT  
AAAGAGCCCTTACCAAGGGATCAGGAGCAATGCCACTGCTAGCATACCTTCCTTAGTGAA  
AAATCTTTTGGAAAAGGATCCCACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTAC  
AGAGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCAACGGATGA  
GACACTGTTTCTGGAATAAATAGCAAAGCCAAAGAAGTCAAACCTGGGAGTGGATATA  
TGGCAAACTCCAAAGTTTAGTATAAATACTTCTTTCATGTGTTATATGAACAGTCACA  
CTTGAAAATTAAGTATTCATAGACATAAAGAATGGAAGAATTGAAATTTGTAATTGGA  
AGCACCTGATCATTGGTTGCCATTGGAATACGTGACAAATTAATTCAGTCTTATTGG  
CAGTAAGTTTTGCCCACTGAACTACCATGCTAACAAATATATTACTTAGAACATGTCC  
ACAAGACCACAACTAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGGAATAAT  
GTGATTCCAAGTAAATGTCTTAATACAGTTTCAATTAGAAAAATAAATGTCTCATACTTG  
CAAA  
AA



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_145198
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145198.1</a> , <a href="#">NP_660199.1</a>
<b>RefSeq Size:</b>	1531 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	51601
<b>UniProt ID:</b>	<a href="#">Q9Y234</a>
<b>Cytogenetics:</b>	2q11.2
<b>Protein Pathways:</b>	Lipoic acid metabolism, Metabolic pathways
<b>Gene Summary:</b>	<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 (4), also known as transcript D, contains an additional exon in the 5' UTR, compared to variant 1. Variants 1 and 3-6 all encode the same protein. There are no publicly available transcripts representing this variant; it is supported by data in PMID:10103005.</p>