

Product datasheet for **SC100187**

LIPT1 (NM_145197) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT1 (NM_145197) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIPT1
Synonyms:	LIPT1D
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145197, the custom clone sequence may differ by one or more nucleotides

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ATGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTCAGCAGCTGGCT
TAAAAAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGT
GGAAGACTGGATCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTGGCAGAAATCTCCC
TCTGTTGTAATTGGTAGGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTA
TAAACTGGCTCGGAGAAGAAGTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTT
CTTTACAACCAAAAAAAGTATGATAGAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTC
CAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACTTGTGACAGTAAAAATCTCAG
GAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCACCATTGCACCTTTATTATGTAGTACTGATGGGAC
GTTCTTGTCTTTTGTAAAGAGCCCTTACCAAGGGATCAGGAGCAATGCCACTGCTAGCATACCTTCC
TTAGTGAAAAATCTTTGGAAAAGGATCCCACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTACAG
AGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCAACGGATGAGACACTGTTTCC
TGAATAAATAGCAAAGCCAAAGAAGTGGAACTGGGAGTGGATATATGGCAAACTCCAAAGTTAGT
ATAAATACTTCTTTTATGTGTTATATGAACAGTCACACTTGGAAATTAAGTATTCATAGACATAAAGA
ATGGAAGAATTGAAATTTGTAATATTGAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACAAATT
AAATTCAGTCTTATTGGCAGTAAGTTTGGCCAACTGAAACTACCATGCTAACAAATATATTACTTAGA
ACATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGGAATAATGT
GA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145197 unedited NGGGGTTCACATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGNAGCACT TTGGGAGGCCAAGTGGGAGGACTGCTTGAGCCCAGGAGTTTGAGACCAGCCTGGGCAACA TGGTGAATCCTGTCTGTAAGAGAAAAAAAAAAGATATATTACATAATGTATTTGCAGCA GACTTATTGTTGAAAAGTGTAAATTTTCAACTGAAATTTTGAATTTGTCTTCA TTTATTTCTTTGAATACTTGGTTATAGCATTGCTAAAGACTAATTGTAAAGCTAAAAGC CAAAAGCAACTGCCTGGATACTTTAAGTTTGGATTAATAACCGATAATTGATAGTTAG AAAATAGAATTTAATGTTCTTTTCTCGATGAATTAATTTGTTTCTTCCATTTTAAA AGCATGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGAACTGCCAGGTC CCAGCAGCTGGCTTTAAAAAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAAT GATGTCTATCAAATCTGGCTGTGGAAGACTGGATCCATGACCATATGAATCTAGAAGGC AAACCAATTCTATTCTTTTGGCAGAATTCTCCCTCTGTTGTAATTGGTAGGCATCAAAT CCTTGGCAGGAATGTAACCTGNATCTAATGAGAGAAAGAAGTATAAACTGGCTCGGAGA AGAAGTGGNAGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTTCTTTACA CCCAAAAAAGTTGATAGAAATGGGAAAACTGAATTAATTGTGAGAGCTGGAATGCTGT CCAACCCAGCTGGATGTGCAAGCTACCAAAGATTTGACCTTTTACTTGATGGAACAGT TTAATCTCAG
Restriction Sites:	NotI-NotI
ACCN:	NM_145197
Insert Size:	3000 bp
OTI Disclaimer:	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).
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:	<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_145197.1 , NP_660198.1
RefSeq Size:	1543 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:

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]

Transcript Variant: This variant (3), also known as transcript C, 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.