

Product datasheet for **RG216737**

LIPT1 (NM_015929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIPT1 (NM_015929) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LIPT1
Synonyms:	LIPT1D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216737 representing NM_015929 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTCCTCCAGCAGCTGGCT
TAAAAAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGT
GGAAGACTGGATCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTGGCAGAATTCTCCC
TCTGTTGTAATTGGTAGGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTA
TAAACTGGCTCGGAGAAGAAGTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTT
CTTTACAACCAAAAAAGTATGATAGAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTC
CAACCCAGCTGGATGTGCAGGCTACCAAAAGATTTGACCTTTTACTTGTGACAGTAAAATCTCAG
GAACAGCTTCTAAGATCGGCCGGACTACTGCCTATCACCATTGCACCTTTATTATGTAGTACTGATGGGAC
GTTCTTGTCTTTGCTAAAGAGCCCTTACCAAGGGATCAGGAGCAATGCCACTGCTAGCATACCTTCC
TTAGTGAAAAATCTTTTGGAAAAGGATCCCACTCTGACCTGTGAAGTACTAATGAATGCTGTTGCTACAG
AGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCAACGGATGAGACACTGTTTCC
TGAATAAATAGCAAAGCAAAGAAGTCAAACTGGGAGTGGATATATGGCAAACTCCAAAGTTTAGT
ATAAATACTTCTTTTCAATGTTTATGAACAGTCACACTTGGAAATTAAGTATTCATAGACATAAAGA
ATGGAAGAATTGAAATTTGTAATTGAAACACCTGATCATTGGTTGCCATTGGAAATACGTGACAAATT
AAATTCAGTCTTATTGGCAGTAAGTTTGGCCAACTGAAACTACCATGCTAACAAATATATTACTTAGA
ACATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATAAGGAATAATG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216737 representing NM_015929
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MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGLILQSSISNDVYQNLAVEDWIHDHMNLEGGKPIFFWQNSP
 SVVIGRHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINLTFFTTKKKYDRMENLKLIVRALNAV
 QPQLDVQATKRFDLLLDGQFKISGTASKIGRTTAYHHCITLLCSTDGTFLSLLKSPYQGIRSNATASIPS
 LVKNLLEKDPTLTCEVLMNAVATEYAAYHQIDNHIHLINPTDETLFPGINSKAKELQTWEWIYGKTPKFS
 INTSFHVLVEQSHLEIKVFIDIKNGRIEICNIEAPDHWLPLEIRDKLNSSLIGSKFCPTETMLTNILLR
 TCPQDHKLNKWNILCEKIKGIM

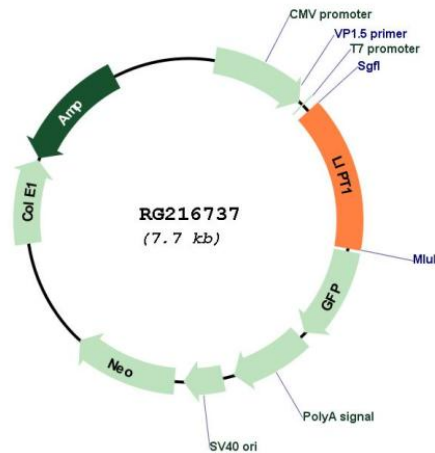
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_015929

ORF Size:	1119 bp
OTI Disclaimer:	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:	<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_015929.4
RefSeq Size:	1415 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]