

Product datasheet for **MG222029**

Lipt2 (NM_026010) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Lipt2 (NM_026010) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Lipt2
 Synonyms: 2610209A20Rik
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG222029 representing NM_026010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGCTGCCTGTGGTCCGGCTCGTTTGGCTTGGTCGGGTGCACTACTCGGAGCTGCTGGCGTTGCAGG
 AGCATTGGCTACGGCGGCTACAGGCAGACCCTCGCCCTGGGACCCTGTCGGGGACCAAAGCGGGTGTGCT
 CTTGGTCTGCGAGCCAGCGGGGCCGTATACACGGCGGGCTACGCGGTGGCCTGACACCCGAGGAGACT
 ACGCGGTGAGGGCCTTGGCGCCGAGGTGCGGCCACCGCCGCGCGGCTGGCCACTTCCACGGCC
 CGGGCCAGTTGCTCTGCCACCCGGTGTGACTTGC GGCTCCTAGGCCTGCGCCTGCGCACCCACGTGGC
 GGCCTGGAGGCGTGC GCGTGC GACTGTGCGAACTTCGGGGCCTGCAGGGCGCCCGCGCGGCCGCC
 CCCTACACTGGCGTCTGGCTGGGGGAGCGCAAGATCTGCGCGATCGGAGTCCGCTGTGGAAGACACATCA
 CGTCCCACGGCTTGGCTCTGAACTGTTCAACCGACCTCACATGGTTTGGACACATTGTGCCTTGTGGACT
 GGTTGGAAGTGGAGTCACTTCCCTGAGTGAGGCGCTTCAAAGACTTGTCACTGTGGATGAAGTAATGCCA
 TCATTCTTGTGGCATTCAAGGAGACTTCAAGTGCACGTTAATCTCTGAGGACAGCCCCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222029 representing NM_026010
 Red=Cloning site Green=Tags(s)

MSLPVVRLVWLGRVHSELLALQEHWLRLQADPRPGTLSGKAGVLLVCEPAGPVYTGGLRGGLTPEET
 TRLRALGAEVRATGRGGLATFHGPGQLLCHPVLDLRLGLRLRTHVAALEACAVRLCELRLGQARARPP
 PYTGVWLGGERKICAIGVRCGRHITSHGLALNCSTDLTFEHIHPCGLVGTGVTSLSEALQRLVTVDEVMV
 SFLVAFKETFKCTLISEDS

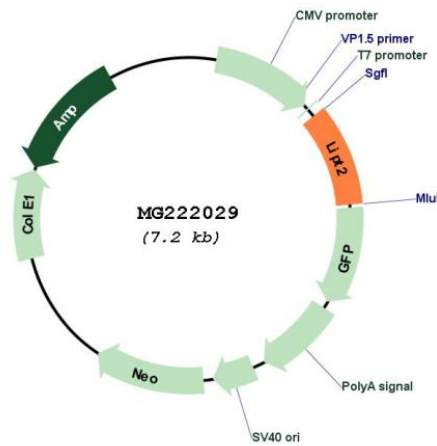
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026010

ORF Size: 693 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_026010.2 , NP_080286.2
RefSeq Size:	1235 bp
RefSeq ORF:	696 bp
Locus ID:	67164
UniProt ID:	Q9D009
Cytogenetics:	7 E2
Gene Summary:	Catalyzes the transfer of endogenously produced octanoic acid from octanoyl-acyl-carrier-protein onto the lipoyl domains of lipoate-dependent enzymes, which catalyze essential redox reactions (By similarity). Lipoyl-ACP can also act as a substrate although octanoyl-ACP is likely to be the physiological substrate (By similarity).[UniProtKB/Swiss-Prot Function]