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Product datasheet for MR222029

Lipt2 (NM_026010) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lipt2 (NM_026010) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lipt2
Synonyms:	2610209A20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR222029 representing NM_026010
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGCTGCCTGTGGTCCGGCTCGTTTGGCTTGGTCGGGTGCACTACTCGGAGCTGCTGGCGTTGCAGG
AGCATTGGCTACGGCGGCTACAGGCAGACCCTCGCCCTGGGACCCTGTCGGGGACCAAAGCGGGTGTGCT
CTTGGTCTGCGAGCCAGCGGGGCCCGTATACACGGGCGGGCTACGCGGTGGCCTGACACCCGAGGAGACT
ACGCGGCTGAGGGCCTTGGGCGCCGAGGTGCGCGCCACCGGCCGCGGCGGCCTGGCCACTTTCCACGGCC
CGGGCCAGTTGCTCTGCCACCCGGTGCTTGACTTGCGGCTCCTAGGCCTGCGCCTGCGCACCCACGTGGC
GGCGCTGGAGGCGTGCGCCGTGCGACTGTGCGAACTTCGGGGCCTGCAGGGCGCCCGCGCGCGGCCGCCG
CCCTACACTGGCGTCTGGCTGGGGGAGCGCAAGATCTGCGCGATCGGAGTCCGCTGTGGAAGACACATCA
CGTCCCACGGCTTGGCTCTGAACTGTTCAACCGACCTCACATGGTTTGAGCACATTGTGCCTTGTGGACT
GGTTGGAACTGGAGTCACTTCCCTGAGTGAGGCGCTTCAAAGACTTGTCACTGTGGATGAAGTAATGCCA
TCATTCCTTGTGGCATTCAAGGAGACTTTCAAGTGCACGTTAATCTCTGAGGACAGCCCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>MR222029 representing NM_026010
Red=Cloning site Green=Tags(s)

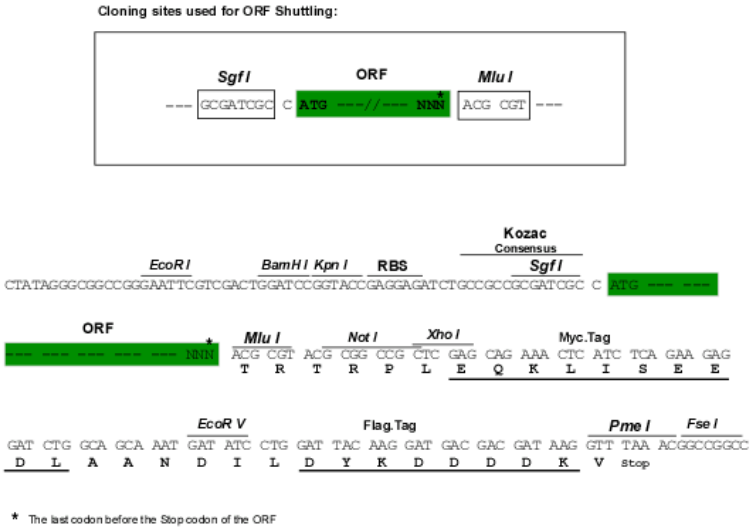
MSLPVVRLVWLGRVHYSELLALQEHWLRRLQADPRPGTLSGTKAGVLLVCEPAGPVYTGGLRGGLTPEET
TRLRALGAEVRATGRGGLATFHGPGQLLCHPVLDLRLLGLRLRTHVAALEACAVRLCELRGLQGARARPP
PYTGVWLGERKICAIGVRCGRHITSHGLALNCSTDLTWFEHIVPCGLVGTGVTSLSEALQRLVTVDEVMP
SFLVAFKETFKCTLISEDSPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9090_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 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

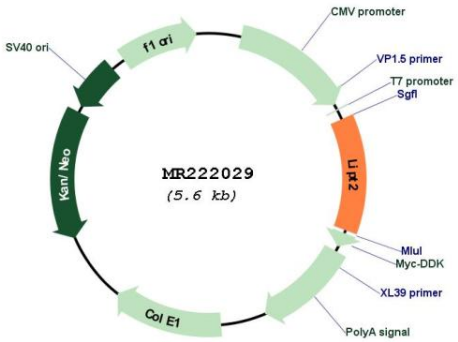
UniProt ID: Q9D009

Cytogenetics: 7 E2

MW: 25 kDa

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]

Product images:



Circular map for MR222029