

Product datasheet for **MR211083**

Lpin2 (NM_001164885) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpin2 (NM_001164885) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lpin2
Synonyms:	2610511G02Rik; AI481352; AW742896
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR211083 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTTTACCTAGAAGATAACAGTGAAGATGAGAAGACGGTTTCAGGAAAGCTCGTTGAGTAAACCTGCAA
GTGTTTACCATGGCAAGGCCCTCTGGGATTCTGTCTCAAACCATGAATTATGTGGGCCAGCTGGCTGG
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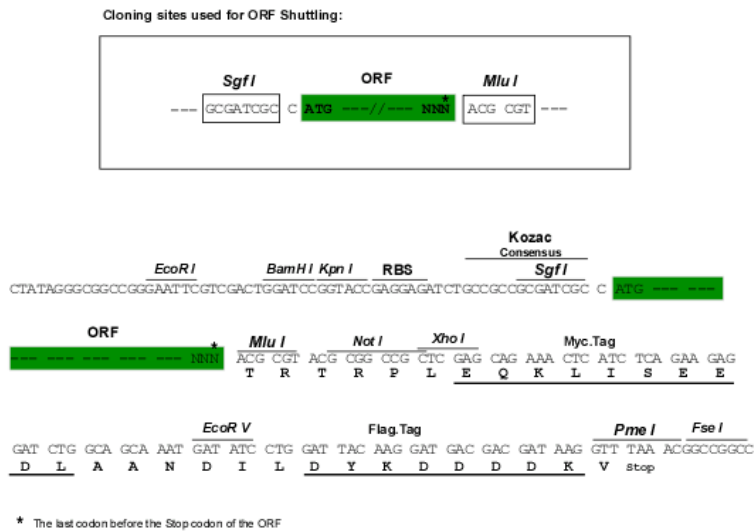
Protein Sequence: >MR211083 protein sequence
 Red=Cloning site Green=Tags(s)

MLYLEDNSEDEKTVQESSLSKPASVYHGKAPPGILSQTMMNVVQQLAGQVLVTVKELYKGINQATLSGCID
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 LATSPIPTEDQFFKHIEITPLVKSSGNERPAQSSDVSHTLESEAVFTQSSVKKKRRRKKCKQDNRKEEQA
 ASPVAEDVGDVGVSSDDEKRAQAARGSSNASLKEEDYKEPSLFHSGDNYPLSDGDWSPLETTYPQAVCPK
 SDESELEVKPSSELLRSEPHMEWTWGGFPESTKVTKRERYDYHPRTATITPSENTHFRVIPSEDSLIREVE
 KDATVEDTTCTIVKPKPRALCKQLSDAAS TELPESPLEAPQISSLLDADPVSPSPA EAPSEP KPAAKDSP
 TKKKGVHKRSQHQPDDIYLDL KALEPEVAALYFPKSDTDPGSRQWPESDTFSGSQSPQSVGSA AADSG
 TECLSDSAMDLPDVTLSLCGGLSENGEISKEKFMEHIITYHEFAENPGLIDNPNLVIRIYNRYNWALAA
 PMILSLQVQKSLPKATVESWVKDKMPKKSGRWWFWRKKESMIKQLPETKEGKSEVPPANDLPSNAEPT
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 YQGT CRCAGTIYLNWVNDKVIISDIDGTITKSDALGQILPQLGKDWTHQGIARLYHSINENGYKFLYCSA
 RAIGMADMTRGYLHWVNDKGTILPRGPLMLSPSSLFSAFHREVIEKKPEKFKIECLNDIKNLFAPSRQPF
 YAAFGNRPNDVYAYTQVGVPCDRIFTVNPKGELIQERTKGNKSSYHRLSELVEHVFP LLSKEQNSAFPCP
 EFSFCYWRDPIDLDLDDLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

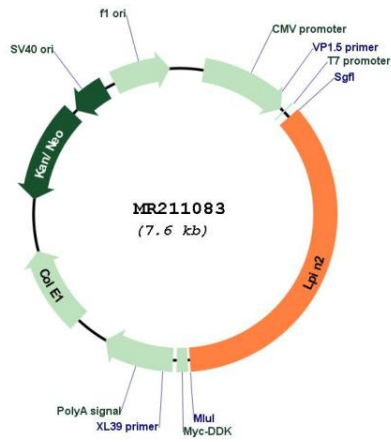


ACCN: NM_001164885

ORF Size: 2793 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 Size:	5775 bp
RefSeq ORF:	2796 bp
Locus ID:	64898
Cytogenetics:	17 E1.3
MW:	103.7 kDa
Gene Summary:	Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis in the reticulum endoplasmic membrane. Acts also as a nuclear transcriptional coactivator for PPARGC1A to modulate lipid metabolism. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211083