

## Product datasheet for MR222138

### Lpar5 (NM\_001163268) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lpar5 (NM_001163268) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lpar5
Synonyms:	Gm1072; Gpr92; GPR93; LPA5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222138 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTGCCAATTCCTCAGCCAACACGACTTCTACCAACAGCTCTGTGCTCCAGTGCCCTGACTATCGAG  
ATACACATCGTTTGCATATGGTGGTCTACAGCCTGGTATTGGCGACTGGTCTCCCTCTCAACGCTCTGGC  
TCTCTGGGTCTTCTGCGTGTACTGCGGTACACTCAGTGGTGGCGGTACATGTGCAACCTGGCAGCC  
AGCGACTTGCTCTTACCCTGTCACTTCCCTGCGCTCTCCTACTATGCACAGCACCCTGGCCTTTTC  
CAGGCTTCTGTGCCAGACGTGGGGCCATCTCCAGATGAACATGTACGGCAGCTGTCTTTTCTGAT  
GCTCATCAACGTGGACCGCTATGCGGCCATCGTGACCCGCTGAGACTGCGCCACCTACGGCGGCCCGT  
GTGGCACGGCGGCTCTGCCTGGGCGTGTGGGCTCTCATCTGCTGTTTCGCTGTGCCCGCCCGCGGTGC  
ACAGCCCGTCCCCTGCACGTACAAGAATCACTGTGCGCTGTGCTTCGAGAGCTTCAGCGATGAACT  
GTGGAAGGGCAGGCTGCTGCCGCTCCTGCTGCTGGCCGAGATACTAGGCTTTCTGCTGCCCTGGCGGT  
GTCGTCTATTCTGCTGGCAGAGTCTTGGACTGGCGAGGCCGACTCAGAGCCAACGGCGAC  
GGAAGACCGTGGCCTCCTGCTGGCCAATCTCATCTTCTGCTGTGCTTCGTCGCCCTATAACTCCAC  
GCTGGCTGATATGGGTGCTACGGGCAACTTGGTGAAGAAGCAGATTACAGACCGGATCAGGTGGC  
GGGTGCTGATGATAATGGTGTGCTGGCGGCCCACTGCTGCTGGATCCACTGGTTTACTACTTCA  
GTGCCGAGGGTTTCCGTAACACCCTTCGCAACCTGGGCGCCCGCTGAATACCAGCCTTTGGCTACCAA  
TGGGGTGCAGGCGTGTCCACCAACTACCTCAGAAAGCACCCAAAACACTGGGCGAGGATGCCACAAGT  
CAGGTTCTACTCCAGCCTGCCACTCTGGGTACACCCCGGACAACCTGCTCCAGGATTTCGGCTCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222138 protein sequence  
 Red=Cloning site Green=Tags(s)

MFANSSANTTSTNSSVLQCPDYRDTHRLHMVVYSLVLATGLPLNALALWVFLRVLRVHSVSVYMCNLAA  
 SDLLFTLSLPLRLSYAQQHHPFPGFLCQTSGAIFQMMYGSCLFLMLINVDRYAAIVHPLRLRHLRRPR  
 VARRLCLGVWALILLFAVPAARVHSPSHCTYKNIIVRLCFESFSDELWKGRLPLLLLAELGFLPLAA  
 VVYSSGRVFWTLARPDATQSQRRTKTVRLLLANLIIFLLCFVPYNSTLAVYGLLRANLVKNSIQDRDQVR  
 GVLIMVLLAGANCVLDPVYVYFAEGFRNTRNLGAPLNRPLATNGAAGVLTPELSESTQNTGQDQATS  
 QVLLQPATLGTTPDNCSQDSAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001163268

**ORF Size:** 1118 bp

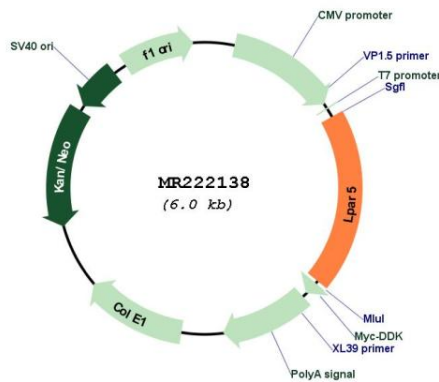
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001163268.1](#), [NP\\_001156740.1](#)
- RefSeq Size:** 1458 bp
- RefSeq ORF:** 1155 bp
- Locus ID:** 381810
- UniProt ID:** [Q149R9](#)
- Cytogenetics:** 6 F2
- MW:** 41.4 kDa
- Gene Summary:** Receptor for lysophosphatidic acid (LPA), a mediator of diverse cellular activities. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222138