

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | mLPAR1           |
| Accession:     | NP_034466        |
| Insert size:   | 1108bp           |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

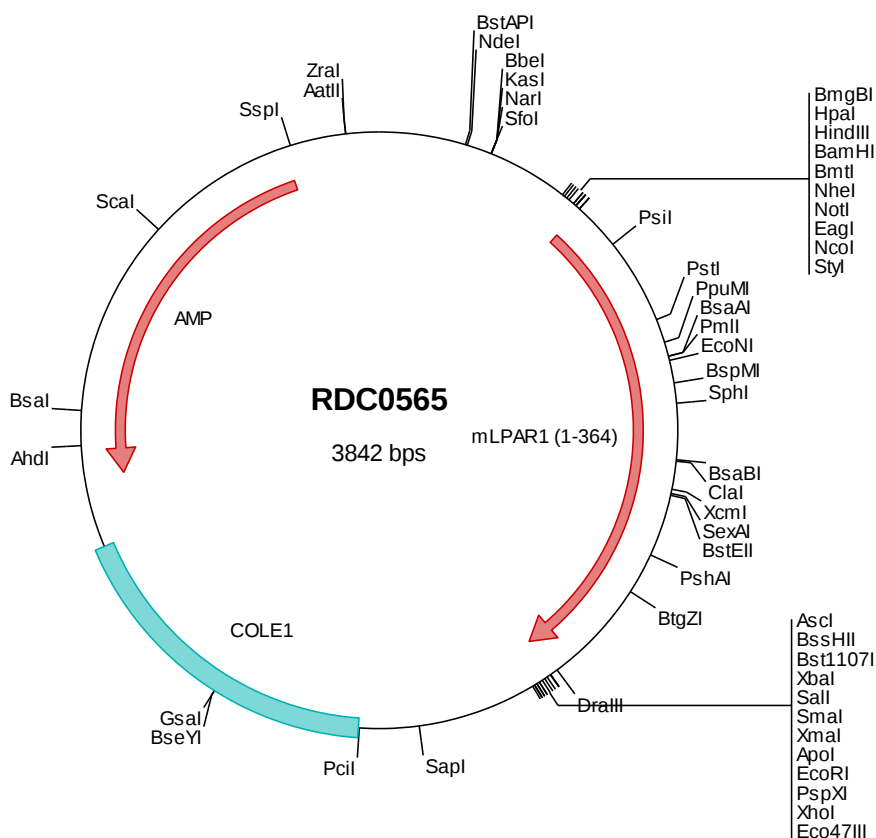
## mLPAR1/EDG-2 cDNA Plasmid

**Lpar1** lysophosphatidic acid receptor 1 [ *Mus musculus* ]

**Also known as:** Edg2; Kdt2; lpA1; vzg-1; Gpcr26

### Summary:

LPAR1 belongs to the G protein-coupled receptor 1 family. LPAR1 is a receptor for lysophosphatidic acid (LPA), a mediator of diverse cellular activities. It is expressed within the embryonic cerebral cortex, where it is enriched in the ventricular zone. LPA signaling through its receptor LPAR1 promotes epithelial cell apoptosis induced by bleomycin injury.





## > RDC0565 Plasmid DNA Sequence

```
1   tcgcgcggtt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccg  gagacggtca  cagcttgtct  gtaagcggat  gccgggagca  gacaagcccg
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
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3801  cattaacctc  taaaaatagg  cgtatcacga  ggccctttcg  tc
```

## > RDC0565 Translated Insert Sequence

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201  lysdsylvfw  aifnlvtfvv  mvvlyahifg  yvrqtrmrms  rhssgprnr  dtmmsllktv  vivlgafivc  wtpglvllll  dvccpqcdvl  ayekffllla
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```