

Product datasheet for **RR210163**

Lpar1 (NM_053936) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lpar1 (NM_053936) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lpar1
Synonyms:	Edg2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210163 representing NM_053936 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCTGCCTCTACTTCCAGCCCTGTGATTTACAGCCCCAGTTCACAGCCATGAACGAACAACAGT
GCTTCTACAACGAGTCTATCGCCTTCTTCTATAACCGGAGTGGAAAGTATCTAGCCACAGAATGGAACAC
TGTGAGCAAGCTGGTGTGGGACTGGGCATCACTGTCTGCGTGTTCATCATGCTGGCCAATCTACTGGTC
ATGGTGGCAATTTACGTCAACCGCCGCTCCATTTCCCTATTTACTTGTGATGGCCAACCTGGCTGCTG
CAGACTTCTTCGCTGGACTGGCCTACTTCTACCTGATGTTCAACACGGGACCTAATACCCGGAGACTGAC
CGTGAGCACATGGCTTCTCCGGCAGGGCCATCGACACCAAGCCTGACGGCTTCTGTGGCCAACCTGCTG
GCCATTGCCATCGAGAGGCACATCACAGTTTTCCGAATGCAGCTCCATACACGAATGAGCAACCGACGTG
TGGTGGTGGTATTGTAGTCATCTGGACTATGGCCATTGTGATGGGTGCCATACCCAGTGTGGGCTGGAA
CTGCATCTGTGATATCGATCATTGTTCCAACATGGCGCCCTCTACAGTGACTCCTACTTAGTCTTCTGG
GCCATTTCAACCTGGTGACCTTTGTGGTCATGGTGGTCTCTACGCTCACATCTTTGGCTATGTTCCGC
AGAGGACTATGAGAATGTCCCGCATAGTTCTGGACCCAGGAGGAATCGGGACACCATGATGAGCCTTCT
GAAGACTGTGGTCATTGTGCTGGTGCCTTTATGTCTGCTGGACTCCGGGATTGGTCTTGCTACTGCTC
GATGTGTGTTGCCCGAGTGCATGTCCTGGCCTATGAGAAGTTCTTCTCTCTGGCAGTTCACT
CGGCTATGAACCCATCATCTACTCTACCGCAGCAAAGAGATGAGCGCCACCTTCAGGCAGATCCTGTG
TTGCCAGCGCAACGAGAACCCCAACGGCCCCACGGAAGGCTCTGACCGCTCGGCCTCCTCCCTCAACCAC
ACTATTCTGGCTGGAGTTCACAGCAATGACCACTCTGTGGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR210163 representing NM_053936
Red=Cloning site Green=Tags(s)

MAAASTSSPVISQPQFTAMNEQQCFYNESIAFFYNRSGKYLATEWNTVSKLVMGLGITVCFIMLANLLV
 MVAIYVNRHFPIYYLMANLAAADFFAGLAYFYLMFNTGPNTRRLTVSTWLLRQGLIDTSLTASVANLL
 AIAIERHITVFRMQLHTRMSNRRVVVVIVVIWTMAIVMGAIPVSGWNCICDIDHCSNMAPLYSDSYLVFW
 AIFNLVTFVVMVLYAHIFGYVRQRTMRMSRHSSGPRRNRDMMSSLKTVVIVLGAFIVCWTPGLVLLLL
 DVCCPQCDVLAIEKFLLLAEFNSAMNPIIYSYRDKEMSATFRQILCCQRNENPNGPTEGSDRSASSLNH
 TILAGVHSNDHSVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3030_b03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_053936

ORF Size: 1092 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_053936.3](#), [NP_446388.1](#)

RefSeq Size: 3320 bp

RefSeq ORF: 1095 bp

Locus ID: 116744

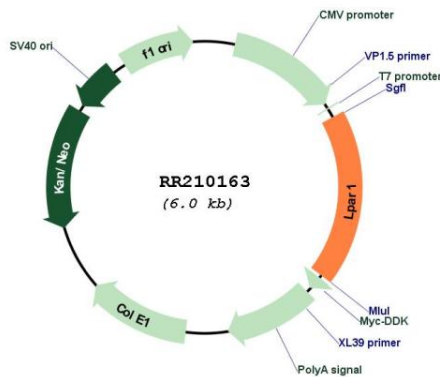
UniProt ID: [P61794](#)

Cytogenetics: 5q24

MW: 41.1 kDa

Gene Summary: G-protein coupled receptor for lysophosphatidic acid (LPA); may mediate LPA induced increase in intracellular calcium ion concentration [RGD, Feb 2006]

Product images:



Circular map for RR210163