

## Product datasheet for **RC206065**

### EDG2 (LPAR1) (NM\_001401) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDG2 (LPAR1) (NM_001401) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LPAR1
Synonyms:	edg-2; EDG2; Gpcr26; LPA1; Mrec1.3; rec.1.3; vzg-1; VZG1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC206065 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCCATCTCTACTTCCATCCCTGTAATTTACAGCCCCAGTTCACAGCCATGAATGAACCACAGT  
GCTTCTACAACGAGTCCATTGCCTTCTTTATAACCGAAGTGGAAAGCATCTTGCCACAGAATGGAACAC  
AGTCAGCAAGCTGGTATGGGACTTGGAACTCACTGTTTGTATCTTCATCATGTTGGCCAACCTGTTGGTC  
ATGGTGGCAATCTATGTCAACCGCCGCTTCCATTTTCTATTTATTACCTAATGGCTAATCTGGCTGCTG  
CAGACTTCTTTGCTGGTTGGCCTACTTCTATCTCATGTTCAACACAGGACCCAATACTCGGAGACTGAC  
TGTTAGCACATGGCTCCTTCGTCAGGGCCTCATTGACACCAGCCTGACGGCATCTGTGGCCAACCTACTG  
GCTATTGCAATCGAGAGGCACATTACGGTTTTCCGCATGCAGCTCCACACACGGATGAGCAACCGGGGG  
TAGTGGTGGTCATTGTGGTCATCTGGACTATGGCCATCGTTATGGGTGCTATACCCAGTGTGGGCTGGAA  
CTGTATCTGTGATTTGAAAATTGTTCCAACATGGCACCCTCTACAGTGACTCTTACTTAGTCTTCTGG  
GCCATTTTCAACTTGGTACCTTTGTGGTAATGGTGGTTCTCTATGCTCACATCTTTGGCTATGTTCCGC  
AGAGGACTATGAGAATGTCTCGCATAGTTCTGGACCCCGGGAATCGGGATACCATGATGAGTCTTCT  
GAAGACTGTGGTCATTGTGCTTGGGCCTTTATCATCTGCTGGACTCCTGGATTGGTTTTGTTACTTCTA  
GACGTGTGCTGTCCACAGTGCAGCTGCTGGCCTATGAGAAATCTTCTCTCCTTGTGAATCAACT  
CTGCCATGAACCCATCATTTACTCCTACCGCGACAAAGAAATGAGCGCCACCTTTAGGCAGATCCTCTG  
CTGCCAGCGCAGTGAGAACCCACCGGCCCCACAGAAGGCTCAGACCGCTCGGCTTCTCCTCAACCCAC  
ACCATCTTGGCTGGAGTTCACAGCAATGACCACTCTGTGGTT

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



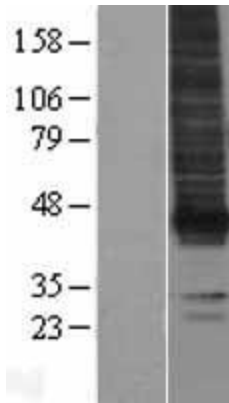
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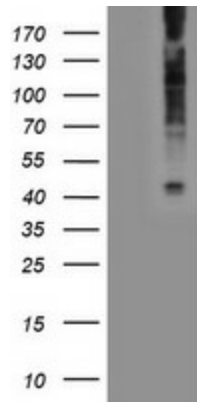
ACCN:	NM_001401
ORF Size:	1092 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
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"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_001401.5</a>
RefSeq Size:	3104 bp
RefSeq ORF:	1095 bp
Locus ID:	1902
UniProt ID:	<a href="#">Q92633</a>
Cytogenetics:	9q31.3
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Gap junction, Neuroactive ligand-receptor interaction
MW:	41.1 kDa

**Gene Summary:**

The integral membrane protein encoded by this gene is a lysophosphatidic acid (LPA) receptor from a group known as EDG receptors. These receptors are members of the G protein-coupled receptor superfamily. Utilized by LPA for cell signaling, EDG receptors mediate diverse biologic functions, including proliferation, platelet aggregation, smooth muscle contraction, inhibition of neuroblastoma cell differentiation, chemotaxis, and tumor cell invasion. Many transcript variants encoding a few different isoforms have been identified for this gene. [provided by RefSeq, Oct 2020]

**Product images:**


Western blot validation of overexpression lysate (Cat# [LY400545]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206065 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LPAR1 (Cat# RC206065, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LPAR1 (Cat# [TA503737]). Positive lysates [LY400545] (100ug) and [LC400545] (20ug) can be purchased separately from OriGene.