

## Product datasheet for **RG206066**

### EDG2 (LPAR1) (NM\_057159) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDG2 (LPAR1) (NM_057159) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDG2
Synonyms:	edg-2; EDG2; Gpcr26; LPA1; Mrec1.3; rec.1.3; vzg-1; VZG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206066 representing NM_057159 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCCATCTCTACTTCCATCCCTGTAATTTACAGCCCCAGTTCACAGCCATGAATGAACCACAGT  
GCTTCTACAACGAGTCCATTGCCTTCTTTTATAACCGAAGTGGAAAGCATCTTGCCACAGAATGGAACAC  
AGTCAGCAAGCTGGTGATGGGACTTGAATCACTGTTTGTATCTTCATCATGTTGGCCAACCTATTGGTC  
ATGGTGGCAATCTATGTCAACCGCCGCTCCATTTTCTATTTATTACCTAATGGCTAATCTGGCTGCTG  
CAGACTTCTTTGCTGGGTTGGCCTACTTCTATCTCATGTTCAACACAGGACCCAATACTCGGAGACTGAC  
TGTTAGCACATGGCTCCTTCGTCAGGGCCTCATTGACACCAGCCTGACGGCATCTGTGGCCAACCTACTG  
GCTATTGCAATCGAGAGGCACATTACGGTTTTCCGCATGCAGCTCCACACACGGATGAGCAACCGCGGG  
TAGTGGTGGTCATTGTGGTCATCTGGACTATGGCCATCGTTATGGGTGCTATACCCAGTGTGGGCTGGAA  
CTGTATCTGTGATATTGAAAATTGTTCCAACATGGCACCCTCTACAGTGACTCTTACTTAGTCTTCTGG  
GCCATTTCAACTTGGTGACCTTTGTGGTAATGGTGGTTCTCTATGCTCACATCTTTGGCTATGTTCCGC  
AGAGGACTATGAGAAATGTCTCGGCATAGTTCTGGACCCCGCGGAATCGGGATACCATGATGAGTCTTCT  
GAAGACTGTGGTCATTGTGCTTGGGCTTTATCATCTGCTGGACTCCTGGATTGGTTTTGTTACTTCTA  
GACGTGTGCTGTCCACAGTGCAGCTGCTGGCCTATGAGAAATTTCTTCTCCTTGTGAATTCACCT  
CTGCCATGAACCCATCATTTACTCTACCGCAGCAAAGAAATGAGCGCCACCTTTAGGCAGATCCCTCTG  
CTGCCAGCGCAGTGAGAACCCACCGGCCCCACAGAAAGGCTCAGACCGCTCGGCTTCTCCTCAACCAC  
ACCATCTTGGCTGGAGTTCACAGCAATGACCACCTGTGGTT

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206066 representing NM\_057159  
 Red=Cloning site Green=Tags(s)

MAAISTSIPVISQPQFTAMNEPQCFYNESIAFFYNRSGKHLATEWNTVSKLVMGLGITVCIFIMLANLLV  
 MVAIYVNRHFHPIYYLMANLAAADFFAGLAYFYLMFNTGPNTRRLTVSTWLLRQGLIDTSLTASVANLL  
 AIAIERHITVFRMQLHTRMSNRRVVVVIVVIWTMAIVMGAIPSVGWNCIDIENCSNMAPLYSDSYLVFW  
 AIFNLVTFVVMVLYAHIFGYVRQRTMRMSRHSSGPRRNRDTMMSLLKTVVIVLGAFIICWTPGLVLLLL  
 DVCCPQCDVLAYPEKFLLLAEFNSAMNPIIYSYRDKEMSATFRQILCCQRSENPTGPTEGSDRSASSLNH  
 TILAGVHSNDHSVV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_057159

**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\\_057159.4](#)

**RefSeq Size:** 3182 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 1902

**UniProt ID:** [Q92633](#)

**Cytogenetics:** 9q31.3

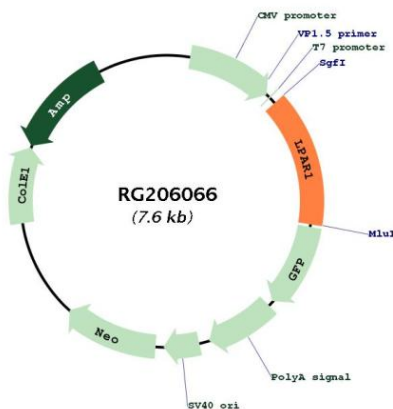
**Domains:** 7tm\_1

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Gap junction, Neuroactive ligand-receptor interaction

**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:



Circular map for RG206066