

## Product datasheet for **SC109187**

### EDG2 (LPAR1) (NM\_057159) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EDG2 (LPAR1) (NM_057159) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDG2
Synonyms:	edg-2; EDG2; Gpcr26; LPA1; Mrec1.3; rec.1.3; vzg-1; VZG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC109187 sequence for NM_057159 edited (data generated by NextGen Sequencing)

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ATGGCTGCCATCTCTACTTCCATCCCTGTAATTTACAGCCCCAGTTCACAGCCATGAAT
GAACCACAGTGCTTCTACAACGAGTCCATTGCCTTCTTTTATAACCGAAGTGAAAGCAT
CTTGCCACAGAATGGAACACAGTCAGCAAGCTGGTGATGGGACTTGAATCACTGTTTGT
ATCTTCATCATGTTGGCCAACCTATTGGTCATGGTGGCAATCTATGTCAACCGCCGCTTC
CATTTTCTATTATTACCTAATGGCTAATCTGGCTGCTGACACTTCTTTGCTGGGTTG
GCCTACTTCTATCTCATGTTCAACACAGGACCAATACTCGGAGACTGACTGTTAGCACA
TGGCTCCTTCGTCAGGGCCTCATTGACACCAGCCTGACGGCATCTGTGGCCAACCTACTG
GCTATTGCAATCGAGAGGCACATTACGGTTTTCCGCATGCAGCTCCACACACGGATGAGC
AACCGGGGGTAGTGGTGGTCATTGTGGTCATCTGGACTATGGCCATCGTTATGGGTGCT
ATACCCAGTGTGGCTGGAAGTGTATCTGTGATATTGAAAATTGTTCCAACATGGCACCC
CTCTACAGTGACTCTTACTTAGTCTTCTGGGCCATTTTCAACTTGGTGACCTTTGTGGTA
ATGGTGGTTCTCTATGCTCACATCTTTGGCTATGTTCCGACAGAGGACTATGAGAAATGCT
CGGCATAGTTCTGGACCCCGGGGAATCGGGATACCATGATGAGTCTTCTGAAGACTGTG
GTCATTGTGCTTGGGGCCTTTATCATCTGCTGGACTCCTGGATTGGTTTTGTTACTTCTA
GACGTGTGCTGTCCACAGTGCAGCTGCTGGCCTATGAGAAATTTCTTCTCTCCTTGCT
GAATTCAACTCTGCCATGAACCCCATCATTTACTCCTACCGCGACAAAGAAATGAGCGCC
ACCTTTAGGCAGATCCTCTGCTGCCAGCGCAGTGAGAACCCACCGGCCCCACAGAAGGC
TCAGACCGCTCGGCTTCTCCTCAACCCACCATCTTGGCTGGAGTTTACAGCAATGAC
CACTCTGTGGTTAG

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Clone variation with respect to NM\_057159.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_057159 unedited  
 GCGTTAGGATTTTGAATACGACTTACTATAGGGCGGCCGCGCAATTCGCACGAGGCACA  
 CTGTCCC GCCCGGACGGGCTTTGTGGTTGGGGCGCGCGTGCGAGTGCCAGTGAGAGTG  
 TGGGTGCGCGCTGTGGGCCGCGCGCGGGTGGGTGGCCGTGCGTCTTTCGAGCCGGCCT  
 GCAGGAGCGAGGCTCCCTGGCTCCCGCACCCAGCGCGGACCGAGCCCTGGAGGGA  
 AGTTGCCGAGCCGCCGGGCCCGGCCCTCTGTCCCGCGCCAGGGAACAGCTCCTGC  
 CCAGGTCGTGGCACTCAGCATGGATTTCACTCTCCCTGTGAGTGATGGGAAAGAACTA  
 ACAGAGGCTGCAAGGTTTTACTGAATCTATTCCATTAGTGACCTACTGGAACGTTCAAAG  
 AATAAAAAATCTCACTTGCTCAGTGTTTTTGATACACAGTGACATTCAGTCTGAAGTGCA  
 TCCTTGAAGGATAGAATAAATCAGCTGTCGTGTTCTCAGTGAAAAGTGGAAAGAAGTTTT  
 AAAGGATCTGCANAATAGAATTATGAGACAGAGGAAAGAAAGAAACAGACAATCTGATCT  
 CTATCTTCATCGGCCAGGTGGACGTCTGATTTATGAAGTCCCATCCACCTATCTGAGT  
 ACCTGACTTCTCAGGACTGACACCTACAGCATCAGGTACACAGCTTCTCCTAGCATGACT  
 TCGATCTGATCAGCAACAAGAAAATTTGTCTTCCCGTATTTTTGGGGCGTGTTCACCAC  
 CTACAACCACCGAGCTGTCATGGGTTGCCATTTCTACTTCCATCCCTGTGATTTTCACA  
 GCCCCCGTTTACAGCCATGAATGAAACCACATGCTTTTAAAACGAGTCCATTGCGCTCT  
 TTTTATAACCCAGTGGGAAGTATT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_057159 unedited  
 NNNTTTACTACTTTGGAACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTT  
 GATTGAAAATGATTTATTAAGTCCAATTAGTATGCTTTTCAATTCAAAATCCATATA  
 GCCTCCAGAAAAATGACATGTGTAAGTCCACGTTCAATTTCTTCACTTCCAATAT  
 AAAGTATTCTGTATTTGTATAAAGTACGTGCAAACACCTTTCTGCTAATCGGGTCCCCA  
 CATTCTTTTCACTACAGTACTTTACAAGTCTGCCCTCTGCTCAAACACTAACCGTGCAC  
 TGACATCTCCTTCTAGACAGCCATTCATCTCCCGGACTTCTTTCTCTCAGACATCCTC  
 CTGACCTCCCCTGACCTGCTTACCACCTGTGTTACCTCACTGGTACTTGTACAGCAAA  
 CTGATGCAACTACTAGTCTACCTGGACAACATATAAACAGGTATCACCTAATAGGGTGG  
 CAGCCTATCGGGGTGATTCTGGCGAATACACAGTAACCAACCACATACTGACACACTCA  
 ACCCATTTGCTACAGATGGACCCACACTAATTGATATGACAATCCTTTATCACTCGGCA  
 CATTGGTTTCTTTGCATTTTCTCCATTTTACATTGCAGGTGTGGCTACCAAGAGCTGG  
 ATAACGAGTCCCTCAAACAAAGTTTGAATTGCGAGATAAATTGGGGTACCTTGATTCTT  
 GAGACAGTTGAATTCCTCTAGTTGATCTTGGTGTATTAAGGAGTCCCTCTCAACTGAAAT  
 GAACACTGCATTTCTTTTGGAAAAAGTCAATTGACTGGCTTTTCTTACAAATGCCCCC  
 CTTGCCGTACAAAGCCGGAATCCCTTTTATGGAAGGGTAATTCCAAGAAGACT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_057159

**Insert Size:**

4000 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_057159.2</a> , <a href="#">NP_476500.1</a>
<b>RefSeq Size:</b>	3182 bp
<b>RefSeq ORF:</b>	1095 bp
<b>Locus ID:</b>	1902
<b>UniProt ID:</b>	<a href="#">Q92633</a>
<b>Cytogenetics:</b>	9q31.3
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Gap junction, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1-26 encode the same protein.</p>