

Product datasheet for **SC117226**

EDG4 (LPAR2) (NM_004720) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDG4 (LPAR2) (NM_004720) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDG4
Synonyms:	EDG-4; EDG4; LPA-2; LPA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004720 edited
 GAATTCGGCAGGAGGCAACCCGCACAGGGCGCACCCGGACGCTCTACCGCTCCC GCCCGC
 AGTCGCGGGCCATGGGCCTCGAGCCCGCCCGAACCCCGCGAGCCCGCCTTGTCTGCG
 GCGTGACTGGAGGCCAGATGGTCATCATGGGCCAGTGTACTACAACGAGACCATCGGC
 TTCTTCTATAACAACAGTGGCAAAGAGCTCAGCTCCCCTGGCGGCCAAGGATGTGGTC
 GTGGTGGCACTGGGGCTGACCGTCAGCGTGTGGTGTGCTGACCAATCTGCTGGTCATA
 GCAGCCATCGCCCTCCAACCCCGCTTCCACCAGCCCATCTACTACCTGCTCGGCAATCTG
 GCCGCGGCTGACCTCTTCGCGGGCGTGGCCTACCTCTTCTCATGTTCCACACTGGTCCC
 CGCACAGCCCGACTTTCACTTGAGGGCTGGTTCCTGCGGCAGGGCTTGTGGACACAAGC
 CTCACTGCGTCGGTGGCCACACTGCTGGCCATCGCCGTGGAGCGGCACCGCAGTGTGATG
 GCCGTGCAGTGCACAGCCCGCTGCCCGTGGCCGCTGGTATGCTCATTGTGGCGTG
 TGGGTGGCTGCCCTGGGCTGGGCTGCTGCTGCCACTCCTGGCACTGCCTCTGTGCC
 CTGGACCCTGCTCACGCATGGCACCCTGCTCAGCCGCTCTATTTGGCCGTCTGGGCT
 CTGTGAGCCTGCTTGTCTTCTGCTCATGGTGGCTGTGTACACCCGATTTTCTTCTAC
 GTGCGGGCGGAGTGCAGCGCATGGCAGAGCATGTCAGCTGCCACCCCGCTACCGAGAG
 ACCACGCTCAGCCTGGTCAAGACTGTTGTATCATCCTGGGGGCTTCGTGGTCTGCTGG
 ACACCAGGCCAGGTGGTACTGCTCCTGGATGGTTAGGCTGTGAGTCTGCAATGCTCCTG
 GCTGTAGAAAAGTACTTCTACTGTTGGCCGAGGCCAACTCACTGGTCAATGCTGCTGTG
 TACTCTTGCCGAGATGCTGAGATGCGCCGCACCTTCCGCCGCTTCTCTGCTGCGCGTGC
 CTCGCCAGTCCACCCCGGAGTCTGTCCACTATACATCTCTGCCAGGGAGGTGCCAGC
 ACTCGCATCATGCTTCCCGAGAACGGCCACCCACTGATGGACTCCACCCTTAGCTACCT
 TGAACCTCAGCGGTACGCGGAAGCAACAAATCCACAGCCCTGATGACTTGTGGGTGCT
 CCTGGCTCAACCAACCAACAGGACTGACTGACTGGCAGGACAAGTCTGGCATGGCACA
 GCACCCTGCCAGGCCTCCCAGGCACACCACTCTGCCAGGGAATGGGGGCTTTGGGTC
 ATCTCCCACTGCCTGGGGAGTCAAGATGGGGTGCAGGAATCTGGCTCTTACCCATCTCA
 GGTTTAGGGGTTTGTAACAGACATTATTCTGTTTTCACTGCGTATCCTTGGTAAGCCCT
 GTGGACTGGTTCCTGCTGTGTGATGCTGAGGGTTTTAAGGTGGGAGAGATAAGGGCTCT
 CTCGGGCCATGCTACCCGGTATGACTGGGTAATGAGGACAGACTGTGGACACCCCATCTA
 CCTGAGTCTGATTCTTTAGCAGCAGAGACTGAGGGGTGCAGAGTGTGAGCTGGGAAAGT
 TTGTGGCTCCTTGACGCTCCAGGGACTGGCTGTCCCCGATAGAATTGAAGCAGTCCAC
 GGGGAGGGGATGATACAAGGAGTAAACCTTTCTTTACACTCAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004720 unedited
 NGGTCAAATTTGTATACGACTCCTATAGGGCGGCCGATTTCGGCAGGAGGCAACCCGC
 ACAGGGCGCACCCGGACGCTCTACCGCTCCC GCCCGCAGTCGCGGGCCATGGGCCTCGAG
 CCCGCCGAACCCCGCGAGCCCGCTTGTCTGCGGCGTACTGGAGGCCAGATGGTGC
 ATCATGGGCCAGTGTACTACAACGAGACCATCGGCTTCTTCTATAACAACAGTGGCAAA
 GAGCTCAGCTCCCACTGGCGGCCAAGGATGTGGTCTGTTGGTGGCACTGGGGCTGACCGTC
 AGCGTGTGGTGTGCTGACCAATCTGCTGGTATAGCAGCCATCGCCTCCAACCGCCGC
 TTCCACCAGCCATCTACTACCTGCTCGGCAATCTGGCCGCGGCTGACCTCTTCCGGGGC
 GTGGCCTACCTCTTCTCATGTTCCACTGGTCCCCGCACAGCCGACTTTCACTTGAG
 GGCTGGTTCCTGCGGCAGGGCTTGTGGACACAAGCCTCACTGCGTCGGTGGCCACTG
 CTGGCCATCGCCGTGGAGCGGCACCGCAGTGTGATGGCCGTGCAGCTGCACAGCCGCTG
 CCCCGTGGCCGCTGGTATGCTCATTGTGGCGTGTGGTGGCTGCCCTGNGCCTGGGG
 CTGCTGCCTGCCACTCCTGGCACTGCCTGTGCCCTGGACCGTGTCTACGCATGGCA
 CCCCTGCTCAGCCGCTCCTATTTGGCCGTCTGGGCTCTGTGAGCCTGCTTGTCTTCTG
 CTCATGGGGNCTGTGTACACCCGATTNTCTTTCTACGTGCGCGGCGAGTGCAGCGCATG
 GCANAGCATGTCAGTGCACCCCGCTACCGAGAGACCAGCTCAGCCTGGTCAAGAACT
 GNTGTCATCATCTGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004720 unedited GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGGGAAAG AAAGGGTTACTCCTTGGATCATCCCCTCCCCGGGACTGCTTCAATTCTATCGGGGACAG GCCAGTCCCTGGAGGCTGCAAGGAGCCACAAACCTTTCCAGCTCACACTCTGCACCCCT CAGTCTCTGCTGCTAAAGAATCAGACTCAGGTAGATGGGGTGTCCACAGTCTGTCCCTCAT TACCCAGTCATACCGGGTAGCATGGCCCCGAGAGAGCCCTTATCTCTCCCCACCTTAAAC CCTCAGCATCACACAGCAGGAACCCAGTCCACAGGGCTTACCAAGGATACGCAGTGAAAAAC AGAATAATGTCTGTTACAAACCCCTAAACCTGAGATGGCTGAAGAGCCAGATTCTGCA CCCCATCTGACTCCCCAGGAGTGGGAGATGACCCAAAGCCCCATTCCCTGGGCAGAG TGGTGTGCTGGGGAGGCTGGCAGTGGTGTGTGCCATGCCAGACCTTGTCTGCCAGT CAGTCAGTCTGTGGTTGGTTGAGCCAGGAGCACCCACAAGTCATCAGGGGCTGTGGA TTTGTGCTTGC CGGTACCGCTGAAGTTCAAGTAGCTAAAGGGTGGAGTCCATCAGTG GGTGGCCGTTCTCGGAAGCATGATGCGAGTGTGGCACCTCCCTGGGCAGAGGATGTAT AGTGGACAGACTCGCGGTGGACTGGNCGGAGCCGCGCANCANAGAAGCCGCGAAGGTGC GGCGCATCTAGCATCTCGCAAGAGTCACAGCAGCTTGACAGTGNAGTGGCCTCCGCCAAC AGTAGAGTACTTTCTCAGCCAGACATGCAGACTCCAGCCCTAACTCCAGGACAGTACAC CTGCCTGGGTCCACAGACACGACGCCCCAGAGAGACACATTTGACAGCTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_004720
Insert Size:	1790 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).
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_004720.4</u> , <u>NP_004711.2</u>
RefSeq Size:	1868 bp
RefSeq ORF:	1056 bp
Locus ID:	9170
UniProt ID:	<u>Q9HBW0</u>
Cytogenetics:	19p13.11
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein functions as a lysophosphatidic acid (LPA) receptor and contributes to Ca²⁺ mobilization, a critical cellular response to LPA in cells, through association with Gi and Gq proteins. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]