

Product datasheet for **RG206444**

EDG4 (LPAR2) (NM_004720) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDG4 (LPAR2) (NM_004720) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDG4
Synonyms:	EDG-4; EDG4; LPA-2; LPA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206444 representing NM_004720 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCATCATGGCCAGTGTCTACTACAACGAGACCATCGGCTTCTTCTATAACAACAGTGGCAAAGAGC
TCAGCTCCACTGGCGGCCAAGGATGTGGTCGTGGTGGCACTGGGGCTGACCGTCAGCGTGTGGTGT
GCTGACCAATCTGCTGGTCATAGCAGCCATCGCCTCAACCGCCGCTTCCACCAGCCATCTACTACCTG
CTCGGCAATCTGGCCGGCTGACCTCTTCGGGGCGTGGCTACCTTCTCTCATGTTCCACACTGGTC
CCCGCACAGCCGACTTTCACTTGAGGGTGGTTCCTGCGGCAGGGCTTGTGGACACAAGCCTCACTGC
GTGGTGGCCACACTGCTGGCCATCGCCGTGGAGCGGCACCGCAGTGTGATGGCCGTGCAGCTGCACAGC
CGCCTGCCCGTGGCCGGTGGTTCATGCTCATTGTGGGCGTGGTGGTGGCTGCCCTGGGCGTGGGCTGC
TGCCCTGCCACTCCTGGCACTGCCTCTGTGCCCTGGACCGCTGCTCACGCATGGCACCCCTGCTCAGCCG
CTCCTATTTGGCCGTCTGGGCTCTGTGAGCCTGCTTGTCTTCTGCTCATGGTGGCTGTGTACACCCGC
ATTTTCTTCTACGTGGCGCGGAGTGCAGCGCATGGCAGAGCATGTGAGCTGCCACCCCGCTACCGAG
AGACCAGCTCAGCCTGGTCAAGACTGTTGTATCATCTGGGGCGTTCGTGGTCTGCTGGACACCAGG
CCAGGTGGTACTGCTCCTGGATGGTTAGGCTGTGAGTCTGCAATGCTTGGCAGATGCTGAGATGCGCC
CTACTGTTGGCCGAGGCCAACTCACTGGTCAATGCTGCTGTGACTCTTGCCGAGATGCTGAGATGCGCC
GCACCTTCGCGCCCTTCTCTGCTGCGCGTGCCTCCGCCAGTCCACCCGCGAGTCTGTCCACTATACATC
CTCTGCCAGGGAGGTGCCAGCACTCGCATCATGCTTCCCGAGAACGCCACCCACTGATGGACTCCACC
CTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206444 representing NM_004720
 Red=Cloning site Green=Tags(s)

MVIMGQCYNETIGFFYNNSGKELSSHWRPKDVVVVALGLTVSVLVLLTNLLVIAAIASNRRFHQPIYYL
 LGNLAADLFAGVAYLFLMFHTGPRTARLSLEGWFLRQGLDLSLTASVATLLAIAVERHRSVMVAVQLHS
 RLPGRVVMILIVGVVVAALGLGLLPAHSWHCLCALDRCSRMAPLLSRSYLAVWALSSLLVFLLMVAVYTR
 IFFYVRRRVQRMAEHVSCHPRYRETTLSLVKTVVILGAFVVCWTPGQVVLLLDGLGCESC�VLAVEKYF
 LLLAEANSLVNAAYVSCRDAEMRRTRFRLLCCACLRLQSTRESVHYTSSAQGGASTRIMLPENGHPLMDST
 L

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004720

ORF Size: 1053 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_004720.6](#)

RefSeq Size: 1868 bp

RefSeq ORF: 1056 bp

Locus ID: 9170

UniProt ID: [Q9HBW0](#)

Cytogenetics: 19p13.11

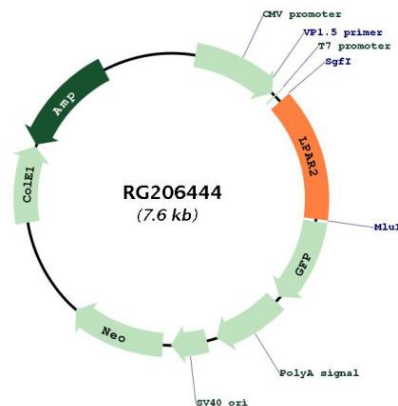
Domains: 7tm_1

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]

Product images:



Circular map for RG206444