

Product datasheet for **RC206444**

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:	Myc-DDK
Symbol:	LPAR2
Synonyms:	EDG-4; EDG4; LPA-2; LPA2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC206444 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCATCATGGCCAGTGCTACTACAACGAGACCATCGGCTTCTTCTATAACAACAGTGGCAAAGAGC
TCAGCTCCCACTGGCGCCAAGGATGTGGTCGTGGTGGCACTGGGGCTGACCGTCAGCGTCTGGTGT
GCTGACCAATCTGCTGGTCATAGCAGCCATCGCCTCCAACCGCGCTTCCACCAGCCCATCTACTACCTG
CTCGGCAATCTGGCCGCGGCTGACCTCTTCGCGGGCGTGGCTACCTCTTCTCATGTTCCACACTGGTC
CCCGCACAGCCCGACTTTCACCTGAGGGCTGGTTCCTGCGGCAGGGCTTGGTGGACACAAGCCTCACTGC
GTCCGTGGCCACACTGCTGGCCATCGCCGTGGAGCGGCACCGCAGTGTGATGGCCGTGACGCTGCACAGC
CGCCTGCCCGTGGCCGCGTGGTCATGCTCATTGTGGCGTGTGGGTGGCTGCCCTGGGCTGGGGCTGC
TGCTGCCACTCCTGGCACTGCCTCTGTGCCCTGGACCCTGCTCACGCATGGCACCCCTGCTCAGCCG
CTCCTATTTGGCCGTCTGGGCTCTGTGAGCCTGCTTGTCTTCTGCTCATGGTGGCTGTGTACACCCGC
ATTTTCTTCTACGTGCGGCGCGAGTGCAGCGCATGGCAGAGCATGTGAGTCCACCCCGCTACCGAG
AGACCACGCTCAGCCTGGTCAAGACTGTTGTATCATCTGCGGGCGTTCGTGGTCTGCTGGACACCAGG
CCAGTGGTACTGCTCCTGGATGGTTTAGGCTGTGAGTCCGCAATGTCCTGGCTGTAGAAAAGTACTTC
CTACTGTTGGCCGAGGCCAACTCACTGGTCAATGCTGCTGTGACTCTTGCCGAGATGCTGAGATGCGCC
GCACCTTCGCGCCTTCTCTGCTGCGCGTGCCTCCGCCAGTCCACCCGCGAGTCTGTCCACTATACATC
CTCTGCCAGGGAGGTGCCAGCACTCGCATCATGCTTCCCGAGAACGCCACCCACTGATGGACTCCACC
CTT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206444 protein sequence
 Red=Cloning site Green=Tags(s)

MVIMGQCYNETIGFFYNNSSGKELSSHWRPKDVVVVALGLTVSVLVLLTNLLVIAAIASNRRFHQPIYYL
 LGNLAADLFAGVAYLFLMFHTGPRTARLSLEGWFLRQGLDLSLTASVATLLAIAVERHRSMVAVQLHS
 RLPRGRVVMLIVGVVVAALGLGLLPAHSHWCLCALDRCSRMAPLLSRSYLAVWALSSLLVFLLMVAVYTR
 IFFYVRRRVQRMAEHVVSCHPRYRETTLSLVKTVVILGAFVVCWTPGQVVLDDGLGCESC�VLAVEKYF
 LLLAEANSLVNAAYVSCRDAEMRRTFRRLLCCACLRSQSTRESVHYTSSAQGGASTRIMLPENGHPLMDST
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

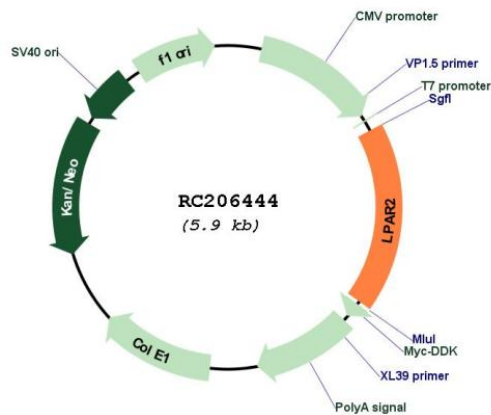
Chromatograms: https://cdn.origene.com/chromatograms/mk6016_b07.zip

Restriction Sites: SgfI-MluI

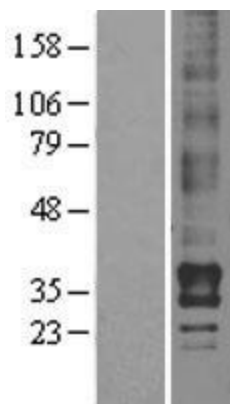
Cloning Scheme:



Plasmid Map:



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:	<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:	NM_004720.6
RefSeq Size:	1803 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
MW:	39.1 kDa
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 Ca ²⁺ 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:

Western blot validation of overexpression lysate (Cat# [LY401490]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206444 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).