*h*LPAR2/EDG-4 VersaClone cDNA

Catalog Number: RDC0317

Specifications:

Gene:	*h*LPAR2/EDG-4
Accession:	NP_004711
Insert size:	1069bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

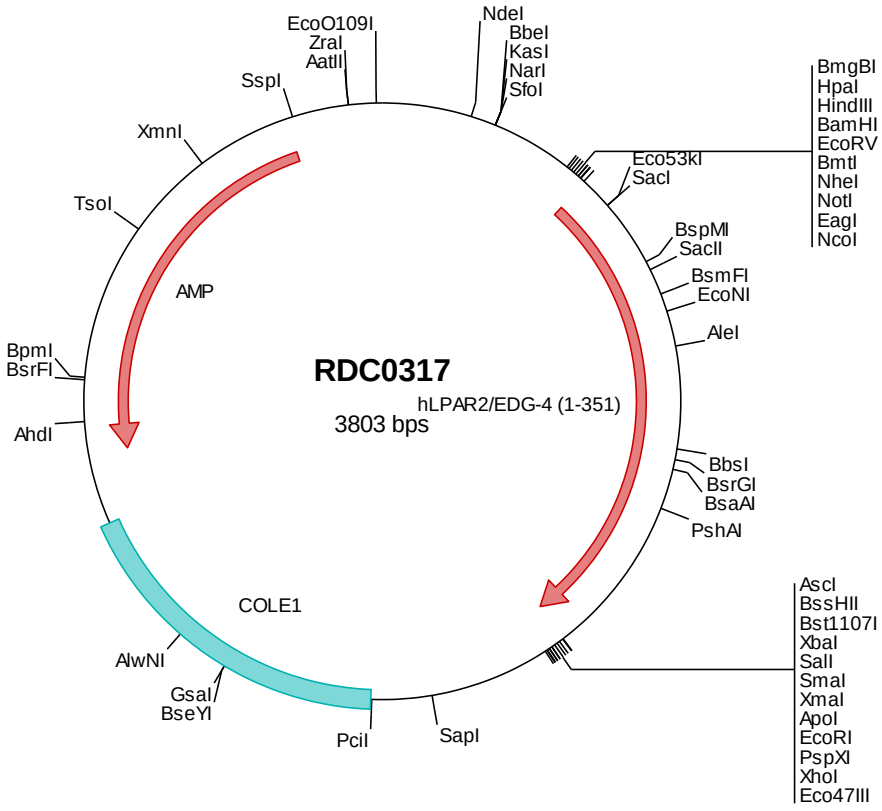
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*LPAR2/EDG-4 cDNA Plasmid

LPAR2 lysophosphatidic acid receptor 2 [*Homo sapiens*]

Also known as: EDG4; LPA2; EDG-4; LPA-2

Summary:
EDG-4 is a receptor for lysophosphatidic acid (LPA), a mediator of diverse cellular activities. It is coupled to the G(i)/G(o), G(12)/G(13), and G(q) families of heteromeric G proteins. EDG-4 plays a key role in phospholipase C-beta (PLC-beta) signaling pathway. EDG-4 interacts with SLC9A3R2/NHERF2, MAGI3, PLCB3, RALA and ADRBK1. EDG-4 is expressed most abundantly in testes and peripheral blood leukocytes with less expression in pancreas, spleen, thymus and prostate.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0317 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggtcatca tgggccagtg ctactacaac gagaccatcg gcttcttcta
 501  taacaacagt ggcaaagagc tcagctccca ctggcggccc aaggatgtgg tcgtggtggc actggggctg accgtcagcg tgctggtgct gctgaccaat
 601  ctgctggtca tagcagccat cgcctccaac cgccgcttcc accagcccat ctactacctg ctcggcaatc tggccgcggc tgacctcttc gcgggcgtgg
 701  cctacctctt cctcatgttc cacactggtc cccgcacagc ccgactttca cttgagggct ggttcctgcg gcagggcttg ctggacacaa gcctcactgc
 801  gtcggtggcc acactgctgg ccatcgccgt ggagcggcac cgcagtgtga tggccgtgca gctgcacagc cgcctgcccc gtggccgcgt ggtcatgctc
 901  attgtgggcg tgtgggtggc tgccctgggc ctggggctgc tgcctgccca ctcctggcac tgcctctgtg ccctggaccg ctgctcacgc atggcacccc
1001  tgctcagccg ctcctatttg gccgtctggg ctctgtcgag cctgcttgtc ttcctgctca tggtggctgt gtacacccgc attttcttct acgtgcggcg
1101  gcgagtgcag cgcatggcag agcatgtcag ctgccacccc cgctaccgag agaccacgct cagcctggtc aagactgttg tcatcatcct gggggcgttc
1201  gtggtctgct ggacaccagg ccaggtggta ctgctcctgg atggtttagg ctgtgagtcc tgcaatgtcc tggctgtaga aaagtacttc ctactgttgg
1301  ccgaggccaa ctcactggtc aatgctgctg tgtactcttg ccgagatgct gagatgcgcc gcaccttccg ccgccttctc tgctgcgcgt gcctccgcca
1401  gtccacccgc gagtctgtcc actatacatc ctctgcccag ggaggtgcca gcactcgcat catgcttccc gagaacggcc acccactgat ggactccacc
1501  ctttaaaggc gcgccagtat actctagagt cgacacccgg ggaattcctc gagcgctcgt ctctagcttg gcgtaatcat ggtcatagct gtttcctgtg
1601  tgaaattgtt atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtaaa gcctggggtg cctaatgagt gagctaactc acattaattg
1701  cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa tcggccaacg cgcggggaga ggcggtttgc gtattgggcg
1801  ctcttccgct tcctcgctca ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt atcagctcac tcaaaggcgg taatacggtt atccacagaa
1901  tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc
2001  cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac tataaagata ccaggcgttt cccccctggaa gctccctcgt
2101  gcgctctcct gttccgaccc tgccgcttac cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc
2201  agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc acgaaccccc cgttcagccc gaccgctgcg ccttatccgg taactatcgt cttgagtcca
2301  acccggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag cgaggtatgt aggcggtgct acagagttct tgaagtggtg
2401  gcctaactac ggctacacta gaaggacagt atttggtatc tgcgctctgc tgaagccagt taccttcgga aaaagagttg gtagctcttg atccggcaaa
2501  caaaccaccg ctggtagcgg tggttttttt gtttgcaagc agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt
2601  ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcaaaaa ggatcttcac ctagatcctt ttaaattaaa aatgaagttt
2701  taaatcaatc taaagtatat atgagtaaac ttggtctgac agttaccaat gcttaatcag tgaggcacct atctcagcga tctgtctatt tcgttcatcc
2801  atagttgcct gactccccgt cgtgtagata actacgatac gggagggctt accatctggc cccagtgctg caatgatacc gcgagaccca cgctcaccgg
2901  ctccagattt atcagcaata aaccagccag ccggaagggc cgagcgcaga agtggtcctg caactttatc cgcctccatc cagtctatta attgttgccg
3001  ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc aacgttgttg ccattgctac aggcatcgtg gtgtcacgct cgtcgtttgg tatggcttca
3101  ttcagctccg gttcccaacg atcaaggcga gttacatgat cccccatgtt gtgcaaaaaa gcggttagct ccttcggtcc tccgatcgtt gtcagaagta
3201  agttggccgc agtgttatca ctcatggtta tggcagcact gcataattct cttactgtca tgccatccgt aagatgcttt tctgtgactg gtgagtactc
3301  aaccaagtca ttctgagaat agtgtatgcg gcgaccgagt tgctcttgcc cggcgtcaat acgggataat accgcgccac atagcagaac tttaaaagtg
3401  ctcatcattg gaaaacgttc ttcggggcga aaactctcaa ggatcttacc gctgttgaga tccagttcga tgtaacccac tcgtgcaccc aactgatctt
3501  cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg caaaatgccg caaaaaaggg aataagggcg acacggaaat gttgaatact
3601  catactcttc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataggg
3701  gttccgcgca catttccccg aaaagtgcca cctgacgtct aagaaaccat tattatcatg acattaacct ataaaaatag gcgtatcacg aggccctttc
3801  gtc
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> RDC0317 Translated Insert Sequence

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 101  legwflrqgl ldtsltasva tllaiaverh rsvmavqlhs rlprgrvvml ivgvwvaalg lgllpahswh clcaldrcsr mapllsrsyl avwalssllv
 201  fllmvavytr iffyvrrrvq rmaehvschp ryrettlslv ktvviilgaf vvcwtpgqvv llldglgces cnvlavekyf lllaeanslv naavyscrda
 301  emrrtfrrll ccaclrqstr esvhytssaq ggastrimlp enghplmdst l
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