

Product datasheet for **RG223706**

EDG7 (LPAR3) (NM_012152) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EDG7 (LPAR3) (NM_012152) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDG7
Synonyms:	Edg-7; EDG7; GPCR; HOFNH30; LP-A3; LPA3; RP4-67813
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223706 representing NM_012152 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATGAGTGTCACATGACAAGCACATGGACTTTTTTATAATAGGAGCAACACTGATACTGTGCGATG
ACTGGACAGGAACAAAGCTTGTGATTGTTTTGTGTGTTGGGACGTTTTTCTGCCTGTTATTTTTTTTTTC
TAATTCTCTGGTCATCGCGGCAGTGATCAAAAACAGAAAATTCATTTCCCTTCTACTACCTGTTGGCT
AATTTAGCTGCTGCCGATTTCTCGCTGGAATTGCCTATGTATTCCTGATGTTAAACACAGGCCAGTTT
CAAAAACCTTGTACTGTCAACCGCTGGTTTCTCCGTCAGGGGCTTCTGGACAGTAGCTTGACTGCTTCCCT
CACCAACTTGCTGTTATCGCCGTGGAGAGGCACATGTCAATCATGAGGATGCGGGTCCATAGCAACCTG
ACCAAAAAGAGGGTGACACTGCTCATTTTGCTTGTCTGGGCCATCGCCATTTTTATGGGGCGGTCGCCCA
CACTGGGCTGGAATTGCCTCTGCAACATCTCTGCCTGCTTCCCTGGCCCCATTTACAGCAGGAGTTA
CCTTGTGTTTCTGGACAGTGTCCAACCTCATGGCCTTCCATCATGGTTGTGGTGTACCTGCGGATCTAC
GTGTACGTCAAGAGGAAAACCAACGTCTTGTCTCCGCATACAAGTGGTCCATCAGCCGCGGAGGACAC
CCATGAAGCTAATGAAGACGGTGTGACTGTCTTAGGGCGTGTGGTATGCTGGACCCCGGCCCTGGT
GGTTCTGCTCCTCGACGGCCTGAACTGCAGGCAGTGTGGCGTGCAGCATGTGAAAAGGTGGTTCTGCTG
CTGGCGCTGCTCAACTCCGTCGTGAACCCATCATCTACTCCTACAAGGACGAGGACATGTATGGCACCA
TGAAGAAGATGATCTGCTGCTTCTCTCAGGAGAACCAGAGAGGCGTCCCTCTCGCATCCCTCCACAGT
CCTCAGCAGGAGTGACACAGGCAGCCAGTACATAGAGGATAGTATTAGCCAAGGTGCAGTCTGCAATAAA
AGCACTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223706 representing NM_012152
 Red=Cloning site Green=Tags(s)

MNECHYDKHMDFFYNRSNTDTVDDWTGTLVIVLCVGTFFCLFIFFSNSLVIAAVIKNRKFHFFPYLLA
 NLAAADFFAGIAYVFLMNTGPVSKTLTVNRWFLRQGLDSSLTASLTNLLVIAVERHMSIMRMRVHNSL
 TKKRVTLLILLVWAI AIFMGAVPTLGNCLCNISACSSLAPIYSRYLVFVTVSNLMAFLIMVVVYLR IY
 VYVKRKTNVLSPHTSGSISRRTMPKLMKTVMTVLGAFVVCWTPGLVLLLDGLNCRQCQGVQHVKRWFLL
 LALLNSVNP I IYSYKDEDMYGMTKMKMICCF SQENPERRPSRIPSTVLSRSDTGSQYIEDSISQGAVCNK
 STS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012152

ORF Size: 1059 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_012152.3](#)

RefSeq Size: 1148 bp

RefSeq ORF: 1062 bp

Locus ID: 23566

UniProt ID: [Q9UBY5](#)

Cytogenetics: 1p22.3

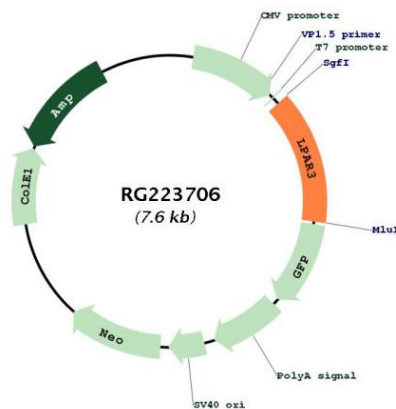
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes a member of the G protein-coupled receptor family, as well as the EDG family of proteins. This protein functions as a cellular receptor for lysophosphatidic acid and mediates lysophosphatidic acid-evoked calcium mobilization. This receptor couples predominantly to G(q/11) alpha proteins. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG223706