

Product datasheet for **RG217609**

LRP4 (NM_002334) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LRP4 (NM_002334) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LRP4
Synonyms: CLSS; CMS17; LRP-4; LRP10; MEGF7; SOST2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217609 representing NM_002334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCGGCAGTGGGGCGCGTCTGCTTGGCGCCCTGCTCTGCGCACACGGCCTGGCCAGCAGCCCCG
AGTGTGCTTGTGGTGGGAGCCACTTCACATGTGCAGTGAGTGTCTTGGAGAGTGTACCTGCATCCCTGC
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CGGATCCTCCGTGCCAACCTCAACGGCAGCAACGTGGAGGAGGTTGTGTCTACTGGGCTGGAGAGCCCAG
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 ACGGGCTGAAACATGAACGCAAGCTCTCTCAGAGAGCCAGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217609 representing NM_002334
 Red=Cloning site Green=Tags(s)

MRRQWGALLL GALLCAHGLASSPECACGRSHFTCAVSALGECTCIPAQWQCDGDNDCGDHSDEDCILPT
 CSPLDFHCDNGK CIRRSWVCDGDNDCEDDSDQDCPPRECEDEFPCQNGYCI RSLWHCDGDNDCGDNDSD
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 FSCACPTGIQLKGDGKTCDPSPETYLLFSSRGSIRRISLDTSDHTDVHVPVPELNNV ISLDYDSVDGKVY
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 DEPRAIAVFPKGYLFWTDWGHIAKIERANLDGSERKVLINTDLGWPNGL TLDYDTRRIYWVDAHLDRIE
 SADLNGKLRQVLVGHVSHPFAL TQQDRWIYWTDWQTKSIQRVDKYSGRNKETVLANVEGLMDIIVVSPQR
 QTGTNACGVNNGGCTHLCFARASDFVCACPDEPDSQPCSLVPGLVPPAPRATGMSEKSPVLPNTPTTLY
 SSTTRTRTSLEEVEGRCSERDARLGLCARSNDAVPAAPGEGHLISYAIGLLSILLILVVI AALMLYRHK
 KSKFTDPGMNLTYSNPSYRTSTQEVKIEAIPKPAMY NQLCYKKEGGPDHNYTKEKIKIVEGICLLSGDD
 AEWDDLKQLRSSRGLLRDHVCMKTDTVS IQASSGSLDDTEMEQLLQEEQSECSSVHTAATPERRGSLPD
 TGWKHERKLSSSESQV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_002334

ORF Size: 5715 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002334.1](#), [NP_002325.1](#)

RefSeq Size: 8076 bp

RefSeq ORF: 5718 bp

Locus ID: 4038

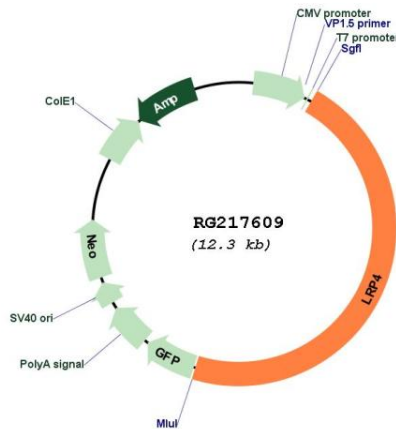
UniProt ID: [O75096](#)

Cytogenetics: 11p11.2

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes a member of the low-density lipoprotein receptor-related protein family. The encoded protein may be a regulator of Wnt signaling. Mutations in this gene are associated with Cenani-Lenz syndrome. [provided by RefSeq, May 2010]

Product images:



Circular map for RG217609