

Product datasheet for **RG228549**

LPPR4 (PLPPR4) (NM_001166252) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LPPR4 (PLPPR4) (NM_001166252) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LPPR4
Synonyms:	LPPR4; LPR4; PHP1; PRG-1; PRG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG228549 representing NM_001166252
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCAGCGCGCTGGCTCCAGCGTGGCCGCGGGAATGTGACATCAGCGCGCCGGGCGCTTGGGGCTGG
 AGGAGGCAGCTCGCCTCAGCTGCGCTGTGCACACCTCGCCCGGGGAGGACGACACCCGGGCAGGCGGC
 AGGGATGTCGGCGAAGGAGAGGGCAAAGGGCAAAGTGATCAAGGACAGCGTCACCCCTCTGCCCTGCTTT
 TATTTCTGTCGAGTTGCCTATATTGGCATCATCGGTGGTTAGCCTCTATTTCTCGAACTCACAGATGTCT
 TCAAACCTGTGCACTCTGGATTTAGCTGCTATGACCGGAGTCTTAGCATGCCGTACATTGAACCAACCCA
 GGAGGCAATTCCATTCTCATGTTGCTTAGCTTGGCTTTTGTGGACCTGCAATTACGATTATGGTAGGA
 GAAGGAATTCTCTACTGTTGCCTCTCCAAAGAAGAAATGGGGTCGACTAGAGCCCAACATTAATGCTG
 GAGGCTGCAACTCAATTCTTCTCAGACGAGCTGTCAGATTGTTGGTGTTCATGATTTGGATTATG
 CTCTACAGCTCTATTACAGATATCATACAGCTGTCCACAGGATATCAAGCACCTTACTTTCTGACTGTG
 TGCAAACCAAACCTATACCTCTCTGAATGTATCTTGCAAAGAAAATTCCTACATTGTGGAAGATATTTGCT
 CAGGATCTGACCTCACAGTTATCAACAGTGGCAGAAAAGTCCTTCCCTTCTCAACATGCAACCCCTGCTGC
 CTTTGCAGCTGTGTATGTTTCGGGCTTGTATGCTGTGGGGAATTCCTGCCCACTGATGAGAGTATGTTT
 CAGCACAGAGACGCCCTCAGGTCTCTGACAGACCTCAATCAAGATCCCAACCGACTTTTATCTGCTAAAA
 ATGGTAGCAGCAGTGATGGAATTGCTCATACAGAAGGCATCCTCAACCGAAACACAGAGATGCTAGCTC
 TCTGACAAATCTCAAAGAGCAAATGCTGATGTGGAATCATTACTCCACGGAGCCCATGGGGAAGGAG
 AACATGGTTACCTTCAGCAATACCTTGCCGCGAGCCAATACCCCATCTGTAGAAGACCCTGTCAGAAGAA
 ATGCGAGCATTATGCCTCTATGGATTCCGCTCGATCAAAGCAGCTCCTCACCCAGTGGAAGAATAAGAA
 TGAAAGTCGAAAGTTGTCCTTGCAAGTTATAGAGCCTGAGCCTGGGCAGTCACCACCCAGATCCATAGAA
 ATGAGGTCAAGCTCAGAGCCATCAGAGGTAGGGGTGAATGGAGACCACCATGGTCTGGCAATCAGTACC
 TCAAAATCCAGCCTGGCGCTGTCCCGGATGTAACAACAGCATGCCTGGAGGGCCAAGAGTGCCATTCA
 GTCCCGTCTGGGTCTCACAGTTGGTGACATCCCTGAGGAGACTCAGGAAAACATAAGCACCTCCCCC
 AAAAGCAGCTCTGCTCGGGCCAAGTGGTTAAAAGCTGCTGAAAAGACTGTGGCCTGTAAACAGAAGCAACA
 GCCAGCCCCGAATCATGCAAGTCATAGCCATGTCCAAGCAGCAGGGTGTCTCCTCAAAGCAGCCCCAAGAA
 CACTGAAGGCAGCAGGTCTCCTGCACTGGCTCCATCCGCTATAAAACCTTGACAGACCATGAGCCCAGT
 GGGATAGTGAGGGTTGAGGCTCACCCAGAGAACAACAGGCCCATCATACAGATCCCGTCCACTGAAGGTG
 AAGGCAGTGGCTCCTGGAAGTGGAAGCCCTGAAAAGGGCAGCCTTCGCCAAACTTACGAGCTCAACGA
 TCTCAACAGGGACTCAGAAAGCTGTGAGTCTCTGAAAGACAGCTTTGGTTCTGGAGATCGCAAGAGAAGC
 AACATTGATAGCAATGAGCATCACCAACGGAATTACCAACATCCGCGTCACCCAGTAGAGGGCAGCG
 AAATTGGCTCAGAGACGCTGTCCATTTCTTCTCCCGGACTCCACCCTGCGGAGAAAGGGCAATATCAT
 TCTAATCCCTGAAAGAAGCAACAGCCCCGAAACACTAGAATATCTTCTACAAAGGAACCTCCCCACA
 CGGGCTTATAAGGAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228549 representing NM_001166252
 Red=Cloning site Green=Tags(s)

MQRAGSSGGRGECDISGAGRLGLEEAARLSCAVHTSPGGGRRPGQAAGMSAKERPKGKVIKDSVTLLPCF
 YFVELPILASSVSLYFLELTDVFKPVHSGFSCYDRSLMPYIEPTQEAIPLMLLSLAFAGPAITIMVG
 EGILYCLSKRRNGVLEPNINAGGCNFSFLRAVRVGVHVFGLCSTALITDIIQLSTGYQAPYFLTV
 CKPNYTSLVNSCKENSIYVEDICSGDLTVINSGRKSFPSQHATLAFAAVYVSGLYAVGNFLPSDESMF
 QHRDALRSLTDLNQDPNRLLSAKNGSSSDGIAHTEGILNRNHRDASSLTNLKRANADVEIITPRSPMGKE
 NMVTFSTLPRANTPSVEDPVRNNAIHSMDARSKQLLTQWKNKNSRKLTLQVIEPEPGQSPPRSIE
 MRSSEPSRVGVNGDHHGPGNQYLKIQPGAVPGCNSMPGGPRVSIQSRPGSSQLVHIPEETQENISTSP
 KSSSARAKWLKAAEKTACNRSNSQPRIMQVIAMSKQQGVLQSSPKNTEGSTVSTGSIKYKLTLDHEPS
 GIVRVEAHPENNRPIIQIPSTEGEGSGWKWKAPEKGLRQTYELNDLNRDSESCESLKDSESGDRKRS
 NIDSNEHHHHGITTIRVTPVEGSEIGSETLSISSRDSTLRRKGNILIPERSNSPENTRNIFYKGTSP
 RAYKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166252

ORF Size: 2115 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_001166252.1](#), [NP_001159724.1](#)

RefSeq Size: 4867 bp

RefSeq ORF: 1974 bp

Locus ID: 9890

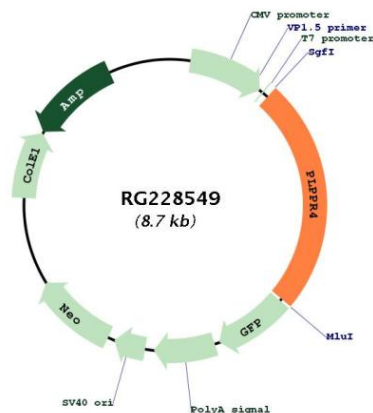
UniProt ID: [Q7Z2D5](#)

Cytogenetics: 1p21.3-p21.2

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene belongs to the lipid phosphate phosphatase (LPP) family. LPPs catalyze the dephosphorylation of a number of bioactive lipid mediators that regulate a variety of cell functions. This protein is specifically expressed in neurons. It is located in the membranes of outgrowing axons and has been shown to be important for axonal outgrowth during development and regenerative sprouting. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RG228549