

## Product datasheet for **RG220842**

### **LPPR4 (PLPPR4) (NM\_014839) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	LPPR4 (PLPPR4) (NM_014839) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLPPR4
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:**

>RG220842 representing NM\_014839  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCGCGCTGGCTCCAGCGGTGGCCGCGGGGAATGTGACATCAGCGCGCCGGCGCTTGGGGCTGG  
 AGGAGGCAGCTCGCTCAGCTGCGCTGTGCACACCTCGCCGGGGAGGACGCAGACCCGGGCAGGCGGC  
 AGGGATGTCGGCGAAGGAGAGGCCAAAGGGCAAAGTGATCAAGGACAGCGTCACCCTCCTGCCCTGCTTT  
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 TCAAACCTGTGCACTCTGGATTTAGCTGCTATGACCGGAGTCTTAGCATGCCGTACATTGAACCAACCCA  
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 TGCAAACCAAACCTATACCTCTCTGAATGTATCTTGCAAAGAAAATTCCTACATTGTGGAAGATTTTGT  
 CAGGATCTGACCTCACAGTTATCAACAGTGGCAGAAAATCCTTCCCTTCTCAACATGCAACCCCTGCTGC  
 CTTTGCAGCTGTGTATGTTTCGATGTACTTCAATTCACATTAACGGATTCTCTAAGCTTCTGAAACCT  
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 GGGGAATTTCTGCCAGTGATGAGAGTATGTTTCAGCACAGAGACGCCCTCAGGCTCTGACAGACCTC  
 AATCAAGATCCCAACCGACTTTTATCTGCTAAAAATGGTAGCAGCAGTGATGGAATTGCTCATACAGAAG  
 GCATCCTCAACCGAAACACAGAGATGCTAGCTCTGACAAATCTCAAAAGAGCAAATGCTGATGTGGA  
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 AATACCCCATCTGTAGAAGACCCTGTGAGAAGAAATGCGAGCATTGATGCCTCTATGGATTCCGCTCGAT  
 CAAAGCAGCTCCTCACCCAGTGAAGAATAAGAATGAAAGTCGAAAGTTGTCTTGAAGTTATAGAGCC  
 TGAGCCTGGGCAGTACCACCCAGATCCATAGAAATGAGGTCAAGCTCAGAGCCATCGAGGGTAGGGGTG  
 AATGGAGACCACCATGGTCTGGCAATCAGTACCTCAAAATCCAGCCTGGCGCTGTCCCGGATGTAACA  
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 ACCACCATCCGCGTCACCCAGTAGAGGGCAGCGAAATGGCTCAGAGACGCTGTCCATTTCTTCTCCC  
 GCGACTCCACCTGCGGAGAAAGGGCAATATCATTCTAATCCCTGAAAGAAGCAACAGCCCCGAAAACAC  
 TAGAAATATCTTCTACAAAGAACCTCCCCACACGGGCTTATAAGGAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG220842 representing NM\_014839  
 Red=Cloning site Green=Tags(s)

MQRAGSSGGRGECDISGAGRLGLEEAARLSCAVHTSPGGGRRPGQAAGMSAKERPKGKVIKDSVTLPCF  
 YFVELPILASSVSLYFLELTDVFKPVHSGFSCYDRSL SMPYIEPTQEAI PFLMLLSLAFAGPAITIMVG  
 EGILYCLSKRRNGVLEPNINAGGCNFSFLRRAVRFVGVHVFGLCSTALITDIIQLSTGYQAPYFLT  
 CKPNYTSLNVSKENSYIVEDICSGSDLTVINSGRKSFP SQHATLA AFAAVYVSMYFNSTLTDSSKLLKP  
 LLVFTFIICGIIICGLTRITQYKNHPVDVYCGFLIGGGIALYGLYAVGNFLPSDESMFQHRDALRSLTDL  
 NQDPNRLLSAKNGSSSDGIAHTEGILNRNHRDASSLNLK RANADVEIITPRSPMGKENMVTF SNTLPRA  
 NTPSVEDPVRNASIHASMDSARSKQLLTQWKNK NESRKL SLQVIEPEPGQSPPRSIEMRSSEPSRVGV  
 NGDHHGPGNQYLKI QPGAVPGCNSMPGGPRVSIQSRPGSSQLVHIPEETQENISTSPKSSSARAKWLKA  
 AEKTVACNRSNSQPRIMQVIAMSKQQGVLQSSPKNTEGSTV SCTGSIRYKTLTDHEPSGIVRVEAHPENN  
 RPIIQIPSTE GEGSGSWKKAPEK GSLRQTYELNDLNRDSESCESL KDSFGSGDRKRSNIDSNEHHHHGI  
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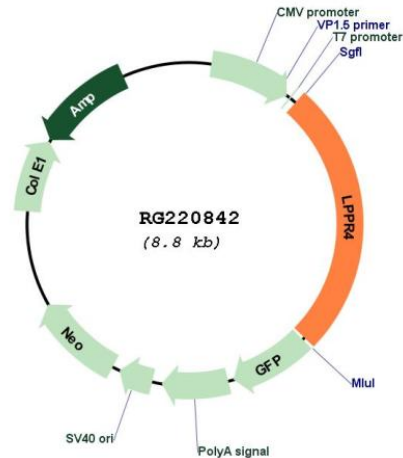
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_014839

**ORF Size:** 2289 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\\_014839.4](#), [NP\\_055654.2](#)

**RefSeq Size:** 4988 bp

**RefSeq ORF:** 2148 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]