

## Product datasheet for **RC234771**

### **LPPR3 (PLPPR3) (NM\_001270366) Human Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                                  |
| Product Name:             | LPPR3 (PLPPR3) (NM_001270366) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK  |
| Symbol:                   | LPPR3  |
| Synonyms:                 | LPPR3; LPR3; PRG-2; PRG2                             |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)                               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                 |



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ORF Nucleotide  
Sequence:

>RC234771 representing NM\_001270366  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGATCTCCACCAAGGAGAAGAACAAGATCCCGAAGGACAGCATGACGCTTCTGCCTGCTTCTACTTCCG  
 TGGAGCTGCCCATAGTGGCTTCTCCATCGTATCCTTGTACTTCCCTGGAGCTGACCGACCTTCAAGCC  
 GGCCAAGGTGGGCTTCCAGTGCTATGACCGCACTCTCCATGCCCTACGTGGAGACCAACGAGGAGCTC  
 ATCCCGCTGCTGATGCTGCTCAGCTTGGCTTCGCGGCCCTGCCGCTCGATCATGGTGGCCGAGGGCA  
 TGTTGTACTGTCTGCAGTCCCGCTGTGGGGCCGTGCCGGGGGGCCCGCGGGGGGAGGGCAGCATCAA  
 CGCCGGCGGTGCAACTTCAACTCCTTCTGCGGCGTACGGTGCAGTTTGTGGGTGTCCACGTGTTCCGC  
 CTGTGTGCCACAGCCCTGGTACGGACGTGATCCAGCTGGCCACGGGTTACCACACTCCCTTCTTCTCA  
 CCGTCTGCAAGCCCAACTACACTCTCCTGGGCAGTCTCGGAGGTCAACCCCTACATCACGAGGACAT  
 CTGCTCCGGCCAGACATCCACGCCATCTGTCTGCACGGAAGACCTTCCCGTCCAGCAGCCACGCTG  
 TACGCTTCGCCCAGGCTATGTGTGATGTACTTCAACTCGGTATCTCGGACACCACCAAGCTGCTGA  
 AGCCCATCTGGTCTTCGCCTTTGCCATCGCCGCGGGCGTATGCGGGCTCACGCAGATCACGCAGTACCG  
 CAGCCACCCTGTGGAGCTGTATGCCGGCTTCTCATCGGGGCGGGCATCGCTGCCTACCTGGCCTGCCAC  
 GCGGTGGGCAACTTCCAGGCCACCTGCAGAGAAGCCCGCGGCCCGCGCCCGCAAGGACGCGCTGC  
 GGGCCCTGACGCAGCGGGGCCAGACTCGGTTTATCAGCAGAATAAGTCGGTGAACCCGACGAGCTGGG  
 GCCCCAGGGCGGCTGGAGGGCGCGCCCGGCCGTGGCCCGGAGAAGACCTCGCTGGGCAGCTGAAG  
 CGCGCCAGCGTGGACGTGACCTGTGGCCCGCGCAGCCCATGGCCAAGGAGAATGGTGACCTTCA  
 GCCACAGCTGCCAGGGCCAGCGCCCTCGCTGGACGACCCCGCGCCGACATGACCATCCACGT  
 GCCGCTGGACGCTCGCGCTCCAAGCAGCTCATCAGCAGTGGAAGCAGAAGAGCCTGGAGGGCCGCGC  
 CTGGGGTGCCTGACGACGCCAGCCCGGGCACCTGCGCGCGCCCGCAACCCATGGCGGAGGAGGAGG  
 AAGAGGAGGAGGACGAAGAGGAAGAGGAGGAGGAGGAAGAGGAGGAGGACGAGGGCCCGCCCGCCCTC  
 GCTCTACCCACCGTGCAGGCGCGGGGGCTGGGGCTCGGGTTCATCTCCACCGCGCGGGGGCCG  
 CCGCCGCTGGTGCACATCCCGAGGAGGGCGCGCAGCGGGGGCCGGCTGTCCCCAAAAGCGCGCCG  
 GGGTGCAGCCTAAGTGGCTCATGATGGCCGAGAAGAGCGGGGCGGAGTGGCCAACCTCCGCGGCTGT  
 GCAGGTCATCGCCATGTCCAAGGCTCCGGGCGCGCGGGCCCAAGGCGGCGAGACGGCGTCGTGTC  
 AGCGCCAGCTCCGACTCCTCGCAGTACCGTTCGCGTTCGGACCGGACTCCGCCAGCATCGTGACCATCG  
 ACGCGCACGCGCCGACACCCCGTGGTGCACCTGTGCGCCGGCGCGCGCCCTGGGAGTGAAGGCGGC  
 GGGCGGGGGGCCAAGGCGGAGGCGGACGGCGGCTACGAGCTGGGGGACCTGGCGCGCGGCTTCCGCGGC  
 GGGGCCAAGCCCGGGCGTGTCCCGGCTCGTGGTACAGCAGTGGACCAGGAGGAGCGCGGTTCCG  
 GGGCCGTGGCCACCGTCAACCTGGCCACGGGCGAGGGGCTGCCCCGCTGGGCGCGGCCGATGGGGCGT  
 GGGCCCGGGCAGCCGGAGTCCACGCTGCGGGCCACGCGGGCGGCTGGGGTGGCGGAGCGGAGGCG  
 GAGGCGGAGGCGGAGGCTACTTCCGAAGATGCAGGCGCGCGCTTCCCGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234771 representing NM\_001270366  
 Red=Cloning site Green=Tags(s)

MISTKEKNKIPKDSMTLLPCFYFVELPIVASSIVSLYFLELTDLFKPAKVGFCYDRTLSPMPVETNEEL  
 IPLMLLSLAFAPAASIMVAEGMLYCLQSRWGRAGGPAGAEGSINAGGCNFNFLRRTVRFVGVHVFV  
 LCATALVTDVIQLATGYHTPFLLTVCKPNYTLTGTSCVENPYITQDICSGHDIHAILSARKTFPSQHATL  
 SAFAAVYVSMYFNSVSIIDTTKLLKPILVFAFAIAAGVCGLTQITQYRSHPVVDVYAGFLIGAGIAAYLACH  
 AVGNFQAPPAEKPAAPAKDALRALTRQGHDSVYQNKSVSTDELGPPGRLEGAPRPVAREKTSLSGLK  
 RASVDVDLLAPRSPMAKENMVTFSHTLPRASAPSLDDPARRHMTIHVPLDASRSKQLISEWKQKSLLEGRG  
 LGLPDDASPGHLRAPAEPMEEEEEEEEEEEEEEEEDEGPAPPSLYPTVQARPLGPRVILPFRAGP  
 PPLVHIPEEQAQTGAGLSPKSGAGVRKWLMMAEKSGAAVANPPRLLQVIAMSKAPGAPGPKAAETASSS  
 SASDSSQYRSPDRDSASIVTIDAHAHPHPVVHL SAGGAPWEWKAAGGGAKAEADGGYELGDLARGFRT  
 GAKPPGVSPGSSVSDVDQEEPRFGAVATVNLATGEGPLPLGAADGALPGSRESTLRRHAGGLGLAAREA  
 EAEAEYFRKMQARRFPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001270366

**ORF Size:** 2154 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\\_001270366.2](#)

**RefSeq Size:** 2321 bp

**RefSeq ORF:** 2157 bp

**Locus ID:** 79948

**UniProt ID:** [Q6T4P5](#)

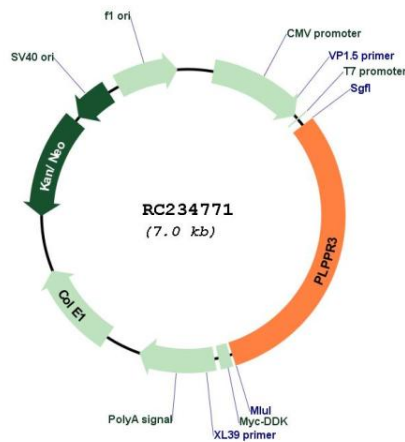
**Cytogenetics:** 19p13.3

**Protein Families:** Transmembrane

**MW:** 76.5 kDa

**Gene Summary:** The proteins in the lipid phosphate phosphatase (LPP) family, including PRG2, are integral membrane proteins that modulate bioactive lipid phosphates including phosphatidate, lysophosphatidate, and sphingosine-1-phosphate in the context of cell migration, neurite retraction, and mitogenesis (Brauer et al., 2003 [PubMed 12730698]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RC234771