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Product datasheet for RC222326

LPPR3 (PLPPR3) (NM_024888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LPPR3 (PLPPR3) (NM_024888) 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)

View online »

ORF Nucleotide Sequence:

>RC222326 representing NM_024888
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCTCCACCAAGGAGAAGAACAAGATCCCGAAGGACAGCATGACGCTTCTGCCCTGCTTCTACTTCG
TGGAGCTGCCCATAGTGGCTTCTTCCATCGTATCCTTGTACTTCCTGGAGCTGACCGACCTCTTCAAGCC
GGCCAAGGTGGGCTTCCAGTGCTATGACCGCACTCTCTCCATGCCCTACGTGGAGACCAACGAGGAGCTC
ATCCCGCTGCTGATGCTGCTCAGCTTGGCCTTCGCGGCCCCTGCCGCCTCGATCATGGTGGCCGAGGGCA
TGTTGTACTGTCTGCAGTCCCGGCTGTGGGGCCGTGCCGGGGGGCCCGCCGGGGCGGAGGGCAGCATCAA
CGCCGGCGGCTGCAACTTCAACTCCTTCCTGCGGCGTACGGTGCGGTTTGTGGGTGTCCACGTGTTCGGC
CTGTGTGCCACAGCCCTGGTGACGGACGTGATCCAGCTGGCCACGGGTTACCACACTCCCTTCTTCCTCA
CCGTCTGCAAGCCCAACTACACTCTCCTGGGCACGTCCTGCGAGGTCAACCCCTACATCACGCAGGACAT
CTGCTCCGGCCACGACATCCACGCCATCCTGTCTGCACGGAAGACCTTCCCGTCCCAGCACGCCACGCTG
TCAGCCTTCGCCGCGGTCTATGTGTCGGTGAGTCCGGCACCTCACTGCCCTTCCCAGGCCCTCTTGCTGA
CCCGTGGGGAGCCCTCCCTGACCCCAACCCCCATGCCCCAGATGTACTTCAACTCGGTCATCTCGGACAC
CACCAAGCTGCTGAAGCCCATCCTGGTCTTCGCCTTTGCCATCGCCGCGGGCGTATGCGGGCTCACGCAG
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CAAGGACGCGCTGCGGGCCCTGACGCAGCGGGGCCACGACTCGGTTTATCAGCAGAATAAGTCGGTGAGC
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CATGGTGACCTTCAGCCACACGCTGCCCAGGGCCAGCGCGCCCTCGCTGGACGACCCCGCGCGCCGCCAC
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CGCGCGCGGGGCCGCCGCCGCTGGTGCACATCCCGGAGGAGGGCGCGCAGACGGGGGCCGGCCTGTCCCC
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GAGTGGAAGGCGGCGGGCGGCGGGGCCAAGGCGGAGGCCGACGGCGGCTACGAGCTGGGGGACCTGGCGC
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GGAGCCGCGGTTCGGGGCCGTGGCCACCGTCAACCTGGCCACGGGCGAGGGGCTGCCCCCGCTGGGCGCG
GCCGATGGGGCGCTGGGCCCGGGCAGCCGGGAGTCCACGCTGCGGCGCCACGCGGGCGGCCTGGGGCTGG
CGGAGCGCGAGGCGGAGGCGGAGGCCGAGGGCTACTTCCGCAAGATGCAGGCGCGCCGCTTCCCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222326 representing NM_024888
Red=Cloning site Green=Tags(s)

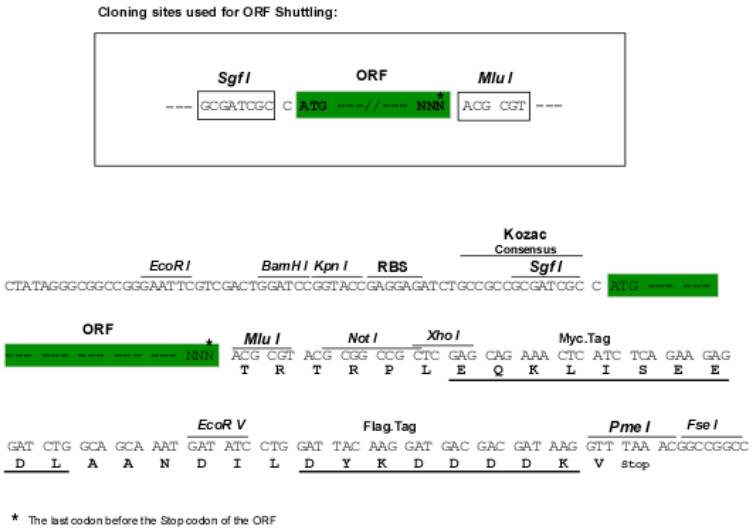
MISTKEKNKIPKDSMTLLPCFYFVELPIVASSIVSLYFLELTDLFKPAKVGFQCYDRTLSMPYVETNEEL
IPLLMLLSLAFAAPAASIMVAEGMLYCLQSRLWGRAGGPAGAEGSINAGGCNFNSFLRRTVRFVGVHVFG
LCATALVTDVIQLATGYHTPFFLTVCKPNYTLLGTSCEVNPYITQDICSGHDIHAILSARKTFPSQHATL
SAFAAVYVSVSPAPHCPSQALLLTRGEPSLTPTPMPQMYFNSVISDTTKLLKPILVFAFAIAAGVCGLTQ
ITQYRSHPVDVYAGFLIGAGIAAYLACHAVGNFQAPPAEKPAAPAPAKDALRALTQRGHDSVYQQNKSVS
TDELGPPGRLEGAPRPVAREKTSLGSLKRASVDVDLLAPRSPMAKENMVTFSHTLPRASAPSLDDPARRH
MTIHVPLDASRSKQLISEWKQKSLEGRGLGLPDDASPGHLRAPAEPMAEEEEEEEDEEEEEEEEEEDEG
PAPPSLYPTVQARPGLGPRVILPPRAGPPPLVHIPEEGAQTGAGLSPKSGAGVRAKWLMMAEKSGAAVAN
PPRLLQVIAMSKAPGAPGPKAAETASSSSASSDSSQYRSPSDRDSASIVTIDAHAPHHPVVHLSAGGAPW
EWKAAGGGAKAEADGGYELGDLARGFRGGAKPPGVSPGSSVSDVDQEEPRFGAVATVNLATGEGLPPLGA
ADGALGPGSRESTLRRHAGGLGLAEREAEAEAEGYFRKMQARRFPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8011_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024888

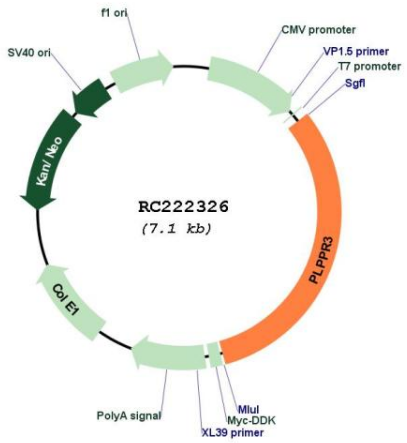
ORF Size: 2238 bp

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

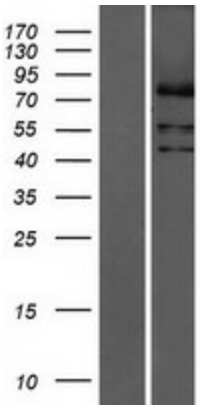
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_024888.1, NP_079164.1
RefSeq Size:	2357 bp
RefSeq ORF:	2241 bp
Locus ID:	79948
UniProt ID:	Q6T4P5
Cytogenetics:	19p13.3
Protein Families:	Transmembrane
MW:	78.8 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 RC222326



Western blot validation of overexpression lysate (Cat# [LY410993]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222326 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).