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Product datasheet for RC224959

Phosphatidic acid phosphatase type 2B (PLPP3) (NM_177414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphatidic acid phosphatase type 2B (PLPP3) (NM_177414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phosphatidic acid phosphatase type 2B
Synonyms:	Dri42; LPP3; MGC15306; PAP-2b; PAP2-b; PAP2-beta; VCIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224959 representing NM_177414
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAAACTACAAGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCAGCCCGGCGCTCAACA
ACAACCCGAGGAGGAGCGGCAGCAAGCGGGTGCTGCTCATCTGCCTCGACCTCTTCTGCCTCTTCATGGC
GGGCCTCCCCTTCCTCATCATCGAGACAAGCACCATCAAGCCTTACCACCGAGGGTTTTACTGCAATGAT
GAGAGCATCAAGTACCCACTGAAAACTGGTGAGACAATAAATGACGCTGTGCTCTGTGCCGTGGGGATCG
TCATTGCCATCCTCGCGATCATCACGGGGGAATTCTACCGGATCTATTACCTGAAGAAGTCGCGGTCGAC
GATTCAGAACCCCTACGTGGCAGCACTCTATAAGCAAGTGGGCTGCTTCCTCTTTGGCTGTGCCATCAGC
CAGTCTTTCACAGACATTGCCAAAGTGTCCATAGGGCGCCTGCGTCCTCACTTCTTGAGTGTCTGCAACC
CTGATTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAACTACAGATGCAGAGGTGATGACAGCAA
AGTCCAGGAAGCCAGGAAGTCCTTCTTCTCTGGCCATGCCTCCTTCTCCATGTACACTATGCTGTATTTG
GTGCTATACCTGCAGGCCCGCTTCACTTGGCGAGGAGCCCGCCTGCTCCGGCCCCTCCTGCAGTTCACCT
TGATCATGATGGCCTTCTACACGGGACTGTCTCGCGTATCAGACCACAAGCACCATCCCAGTGATGTTCT
GGCAGGATTTGCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTTTCTTCGTGTCTGACCTCTTCAAGACT
AAGACGACGCTCTCCCTGCCTGCCCCTGCTATCCGGAAGGAAATCCTTTCACCTGTGGACATTATTGACA
GGAACAATCACCACAACATGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC224959 representing NM_177414
Red=Cloning site Green=Tags(s)

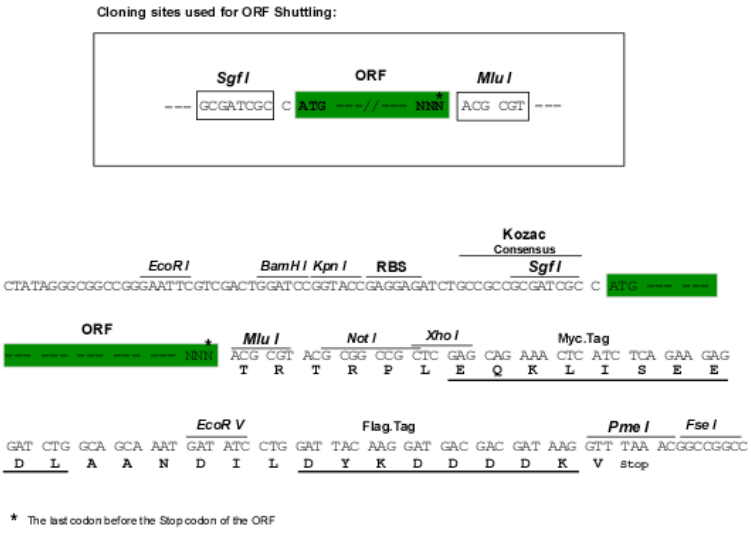
MQNYKYDKAIVPESKNGGSPALNNNPRRSGSKRVLLICLDLFCLFMAGLPFLIIETSTIKPYHRGFYCND
ESIKYPLKTGETINDAVLCAVGIVIAILAIITGEFYRIYYLKKSRSTIQNPYVAALYKQVGCFLFGCAIS
QSFTDIAKVSIGRLRPHFLSVCNPDFSQINCSEGYIQNYRCRGDDSKVQEARKSFFSGHASFSMYTMLYL
VLYLQARFTWRGARLLRPLLQFTLIMMAFYTGLSRVSDHKHHPSDVLAGFAQGALVACCIVFFVSDLFKT
KTTLSLPAPAIRKEILSPVDIIDRNNHHNMM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6424_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177414

ORF Size: 933 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_177414.1, NP_803133.1

RefSeq Size: 3243 bp

RefSeq ORF: 935 bp

Locus ID: 8613

Cytogenetics: 1p32.2

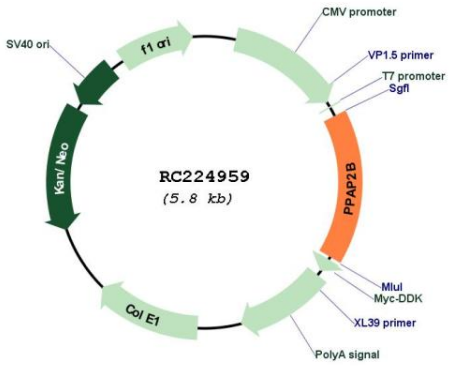
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Ether lipid metabolism, Fc gamma R-mediated phagocytosis, Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Sphingolipid metabolism

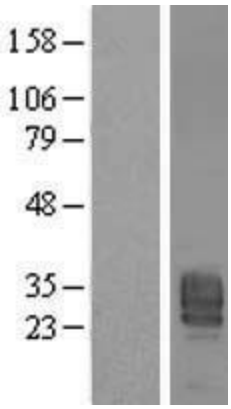
MW: 34.9 kDa

Gene Summary: The protein encoded by this gene is a member of the phosphatidic acid phosphatase (PAP) family. PAPs convert phosphatidic acid to diacylglycerol, and function in de novo synthesis of glycerolipids as well as in receptor-activated signal transduction mediated by phospholipase D. This protein is a membrane glycoprotein localized at the cell plasma membrane. It has been shown to actively hydrolyze extracellular lysophosphatidic acid and short-chain phosphatidic acid. The expression of this gene is found to be enhanced by epidermal growth factor in Hela cells. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC224959



Western blot validation of overexpression lysate (Cat# [LY406156]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224959 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).