

Product datasheet for **RG224959**

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:	TurboGFP
Symbol:	PPAP2B
Synonyms:	Dri42; LPP3; MGC15306; PAP-2b; PAP2-b; PAP2-beta; VCIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224959 representing NM_177414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCAAACTACAAGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCAGCCCGGCGCTCAACA
ACAACCCGAGGAGGAGCGGCAGCAAGCGGGTGTGCTCATCTGCCTCGACCTCTTCTGCCTTTCATGGC
GGGCTCCCTTCTCATCATCGAGACAAGCACCATCAAGCCTTACCACCGAGGGTTTTACTGCAATGAT
GAGAGCATCAAGTACCCACTGAAAAGTGGTGGAGACAATAATGACGCTGTGCTGTGCCGTGGGGATCG
TCATTGCCATCCTCGCGATCATCACGGGGAAATCTACCGGATCTATTACCTGAAGAAGTCGCGGTGCGAC
GATTTCAGAACCCCTACGTGGCAGCACTCTATAAGCAAGTGGGCTGCTTCCTTTGGCTGTGCCATCAGC
CAGTCTTTCACAGACATTGCCAAAGTGTCCATAGGGCGCCTGCGTCCCTCACTTCTTGAGTGTCTGCAACC
CTGATTTTCAGCCAGATCAACTGCTCTGAAGGCTACATTCAGAAGTACAGATGCAGAGGTGATGACAGCAA
AGTCCAGGAAGCCAGGAAGTCTTCTTCTGCGCATGCCTCCTTCTCCATGTACACTATGCTGTATTTG
GTGCTATACCTGCAGGCCCGCTTCACTTGGCGAGGAGCCCGCCTGCTCCGGCCCCCTCGCAGTTCACT
TGATCATGATGGCCTTCTACACGGGACTGTCTCGCGTATCAGACCACAAGCACCATCCAGTGATGTTCT
GGCAGGATTTGCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTTTCTTCTGCTGTGCTGACCTTTCAAGACT
AAGACGACGCTCTCCCTGCTGCCCTGCTATCCGGAAGGAAATCCTTTCACCTGTGGACATTATTGACA
GGAACAATCACCAACATGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224959 representing NM_177414
Red=Cloning site Green=Tags(s)

MQNYKYDKAIVPESKNGGSPALNNNPRRSGSKRVLLICLDLFLCLFMAGLPFLIIETSTIKPYHRGFYCNDESIKYPLKTGETINDAVLCAVGIVIAILAIITGEFYRIYYLKKSRSTIQNPYVAALYKQVGCFLFGCAISQSFTDIKVSIGRLRPHFLSVCNPDFSQINCSEGYIQNYRCRGDDSKVQEARKSFFSGHASF SMYTMLYLVLYLQARFTWRGARLLRPLLQFTLIMMAFYTGLSRVSDHKHHPDVLAGFAQGALVACCI VFFVSDLFKTKTTLSPAPAIRKEILSPVDIIDRNHHHMM

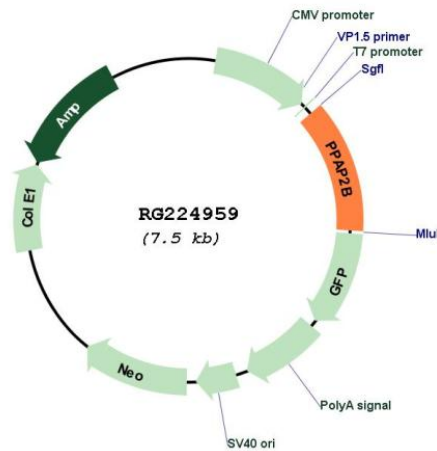
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]