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Product datasheet for SC117784

Phosphatidic acid phosphatase type 2B (PLPP3) (NM_003713) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phosphatidic acid phosphatase type 2B (PLPP3) (NM_003713) Human Untagged Clone
Tag:	Tag Free
Symbol:	Phosphatidic acid phosphatase type 2B
Synonyms:	Dri42; LPP3; PAP2B; PPAP2B; VCIP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_003713 edited
GAATTCGGCACGAGGGGAAGGTGGCCGAGCGCCCGCGCTGCCCACTCGCTCGCTCGCGCA
CTCAGACGCGCGCCACAACAGCGCGCCCCAAGCTGCGCAGCTCTGCAAAAGTTTCTGCTC
GGGATCTGGCTCTCTTCCCCTTGGACTTTAGAACGATTTAGGGTTGACAGAGGAAAGCAG
AGGCGCGCAGGAGGAGCAGAAAACACCACCTTCTGCAGTTGGAGGCAGGCAGCCCCGGCT
GCACTCTAGCCGCCGCGCCCGGAGCCGGGGCCGACCCGCCACTATCCGCAGCAGCCTCGG
CCAGGAGGCGACCCGGGCGCCTGGGTGTGTGGCTGCTGTTGCGGGACGTCTTCGCGGGGC
GGGAGGCTCGCGCCGCAGCCAGCGCCATGCAAAACTACAAGTACGACAAAGCGATCGTCC
CGGAGAGCAAGAACGGCGGCAGCCCGGCGCTCAACAACAACCCGAGGAGGAGCGGCAGCA
AGCGGGTGCTGCTCATCTGCCTCGACCTCTTCTGCCTCTTCATGGCGGGCCTCCCCTTCC
TCATCATCGAGACAAGCACCATCAAGCCTTACCACCGAGGGTTTTACTGCAATGATGAGA
GCATCAAGTACCCACTGAAAACTGGTGAGACAATAAATGACGCTGTGCTCTGTGCCGTGG
GGATCGTCATTGCCATCCTCGCGATCATCACGGGGGAATTCTACCGGATCTATTACCTGA
AGAAGTCGCGGTCGACGATTCAGAACCCCTACGTGGCAGCACTCTATAAGCAAGTGGGCT
GCTTCCTCTTTGGCTGTGCCATCAGCCAGTCTTTCACAGACATTGCCAAAGTGTCCATAG
GGCGCCTGCGTCCTCACTTCTTGAGTGTCTGCAACCCTGATTTCAGCCAGATCAACTGCT
CTGAAGGCTACATTCAGAACTACAGATGCAGAGGTGATGACAGCAAAGTCCAGGAAGCCA
GGAAGTCCTTCTTCTCTGGCCATGCCTCCTTCTCCATGTACACTATGCTGTATTTGGTGC
TATACCTGCAGGCCCGCTTCACTTGGCGAGGAGCCCGCCTGCTCCGGCCCCTCCTGCAGT
TCACCTTGATCATGATGGCCTTCTACACGGGACTGTCTCGCGTATCAGACCACAAGCACC
ATCCCAGTGATGTTCTGGCAGGATTTGCTCAAGGAGCCCTGGTGGCCTGCTGCATAGTTT
TCTTCGTGTCTGACCTCTTCAAGACTAAGACGACGCTCTCCCTGCCTGCCCCTGCTATCC
GGAAGGAAATCCTTTCACCTGTGGACATTATTGACAGGAACAATCACCACAACATGATGT
AGGTGCCACCCACCTCCTGAGCTGTTTTTGTAAAATGACTGCTGACAGCAAGTTCTTGCT
GCTCTCCAATCTCATCAGACAGTAGAATGTAGGGAAAAACTTTTGCCCGACTGATTTTTA
AAAAGGAAAAAAAAAAAAAAAAAACTCGAC

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003713 unedited
GGGCACCATTTGTAAACGACTCCTATAGGCGGCCCGCGAATTCGCACGAGGGGAAGGTGG
CCGAGCGCCCGCGCTGCCCACTCGCTCGCTCGCGCACTCAGACGCGCGCCACAACAGCGC
GCCCCAAGCTGCGCAGCTCTGCAAAAGTTTCTGCTCGGGATCTGGCTCTCTTCCCCTTGG
ACTTTAGAACGATTTAGGGTTGACAGAGGAAAGCAGAGGCGCGCAGGAGGAGCAGAAAAC
ACCACCTTCTGCAGTTGGAGGCAGGCAGCCCCGGCTGCACTCTAGCCGCCGCGCCCGGAG
CCGGGGCCGACCCGCCACTATCCGCAGCAGCCTCGGCCAGGAGGCGACCCGGGCGCCTGG
GTGTGTGGCTGCTGTTGCGGGACGTCTTCGCGGGGCGGGAGGCTCGCGCCGCAGCCAGCG
CCATGCAAAACTACAAGTACGACAAAGCGATCGTCCCGGAGAGCAAGAACGGCGGCAGCC
CGGCGCTCAACAACAACCCGAGGAGGAGCGGCAGCAAGCGGGTGCTGCTCATCTGCCTCG
ACCTCTTCTGCCTCTTCATGGCGGGCCTCCCCTTCCTCATCATCGAGACAAGCACCATCA
AGCCTTACCACCGAGGGTTTTACTGCAATGATGAGAGCATCAAGTACCCACTGAAAACTG
GTGAGACAATAAATGACGCTGTGCTCTGTGCCGTGGGGATCGTCATTGCCATCCTCGCGA
TCATCACGGGGGAATTCTACCGGATCTATTACCTGAAGAAGTCGCGGTCGACGATTCAGA
ACCCCNTACGTGCAGCACTCTATAAGCAGTGGGCTGCTTCCTCTNTGGCTGTGCCATCAG
CCAGTCTTTCACAGACATTGCCAAGTGTCCATAGGGCGCCTGCGTNCTCACTTNCTGAGT
GTCTGCACCCCTGATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003713 unedited
GCGGCACGCTATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCCTTTTTAAAAATCAGTCG
GGCAAAAGTTTTTCCCTACATTCTACTGTCTGATGAGATTGGAGAGCAGCAAGAACTTGC
TGTCAGCAGTCATTTTACAAAAACAGCTCAGGAGGTGGGTGGCACCTACATCATGTTGTG
GTGATTGTTCCTGTCAATAATGTCCACAGGTGAAAGGATTTCCTTCCGGATAGCAGGGGC
AGGCAGGGAGAGCGTCGTCTTATTCTTGAAGAGGTCAGACACGAAGAAAACTATGCAGCA
GGCCACCAGGGCTCCTTGAGCAAATCCTGCCAAAACATCACTGGGATGGTGCTTGTGGTC
TGATACGCGAGACAGTCCCGTGTAGAAGGCCATCATGATCAAGGTGAACTGCAGGAGGGG
CCGGAGCAGGCGGGCTCCTCGCCAAGTGAAGCGGGCCTGCAGGTATAGCACCAAATACAG
CATAGTGTACATGGAGAAGGAGGCATGGCCAGAGAAGAAGGACTTCCTGGCTTCCTGGAC
TTTGCTGTCATCACCTCTGCATCTGTAGTTCTGAATGTAGCCTTCAGAGCAGTTGATCTG
GCTGAAATCAGGGTTGCAGACACTCAAGAAGTGAGGACGCAGGCGCCCTATGGACACTTT
GGCCATGTCTGTGAAAGACTGGCTGATGGCACACCCAAAAGGAAGCAGCCCACTTGCTTA
TAGAGTGCTGCCACGTAGGGGTTTCTGAATCGTCGACCGCGACTTTTTCAGTAATAGATC
CCGTAAATTTCCCCGTGATGATCGCCAAGATGCAATGACGATCCCCCCGCACATAGCCCA
CGGTCTTTTTGGCTCACCGTTTTCATGGGTCCTTGTGCTCCATCATTGAAGAAAACCCTC
GCGGAAAGCTCTATGTGCTTTTCTCAATATGAGAAAGGAACGCCCCCCTAAAAGAC

Restriction Sites: NotI-NotI

ACCN: NM_003713

Insert Size: 1520 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003713.3, NP_003704.3
RefSeq Size:	3310 bp
RefSeq ORF:	936 bp
Locus ID:	8613
UniProt ID:	O14495
Cytogenetics:	1p32.2
Domains:	acidPPc
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]