

Product datasheet for **MG207917**

Pltp (NM_011125) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pltp (NM_011125) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pltp
Synonyms:	Bpife; OD107
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207917 representing NM_011125
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCTGCTCTGGCCCTCTTCTAGCGCTCCTGGCAGGTGCCACGCCGAGCTCCGGGCTGCAAGA
 TCCGCGTACCTCCGCGCTCTGGAGCTGGTGAAGCAGGAAGGCTGCGCTTCTGGAACAAGAGCTGGA
 GACCATACCATCCCAGACGTGTACGGCGCAAAGGGCCACTTTTACTACAATATCTCGGACGTGAGGGTC
 ACACAGCTGCACCTGATATCCTCGGAATCCACTTCCAGCCAGACCAAGATCTGTGCTGAACATCTCCA
 ACGCATCTTGGGGTGCACCTCCGAGGCAGCTACTCTACTGGTTCTTATATGATGGGGCTACATCAA
 TGCCTCGCGGAGGGTGTGTCCATCCGAACAGGTCTACAGCTCTCCAGGATTCCAGCGGTCGGATTA
 GTGTCCAATGTCTCTGCGAGGCCTCTGTGTCTAAAATGAATATGGCCTTCGGGGAACTTCAGGAGGA
 TGTATAACTTTTTCTCCACGTTCACTTCTGGGATGCGGTTCTCTCAACCAGCAGATCTGCCCTGT
 GCTCTACCATGCTGGGACGGTGTGCTCAACTCCCTCCTGGACAGGTGCCCGTCCGCGATTCTGTGGAT
 GATCTCGTGGGCATCGATTACTCCCTTCTGAAGGATCCTGTGGTCTCCAACGGCAATCTGGATATGGAAT
 TCCGGGGAGCATTCTCCCTCTGAAGGAGGACAACCTGGAGCCTCCCAACAGGGCAGTGGAGCCTCAGT
 GGAGGACGACGAGAGGATGGTGTACGTGGCCTTCTCCGAGTCTTTTTGACTCCGCCATGGAGAGCTAC
 TTCCAGGCTGGAGCGCTGCAGCTGACTCTTGTGGGGACAAGGTGCCGAGTGACCTGGACATGCTTCTGA
 GAGCCACTACTTTGGGAGCATTGTTCTCTGAGTCCGACAGTGATTAACCCCCACTGAAGCTGAAGCT
 AGAGGCCACGAGCCCTCCACGTTGTACCATCAAGCCGTGAGCCACCACCTCTCCATCACCGCCAGCGTC
 ACCATCACCTTGGCCCCGCCATGTTGCCGGAAGTGGAGCTGTCCAAGATGATCATGGAAGGCCGCTCA
 GTGCTAAGTTGACACTCCGGGGCAAGCGCTGCGAGTGAAGCTGGACCTCGAAGGTTTCAAATCTACTC
 AAATCAGTCTGCGCTGGAGTCTCTGGCGCTGATCCCACTGCAGGCCCCACTGAAGACACTGCTGCAATC
 GGAGTGATGCCTTTGCTGAACGAGCGTACCTGGCGTGGGGTGCAGATCCCCCTTCTGAGGGTATCAACT
 TCGTGCCTGAGGTGGTGACCAACCACGCGGGCTTCGTCAGTGTGGGGCTGACCTCCACTTTGCCAAGG
 GCTTCGAGAAGTGATTGACAAGAACCCTCCTGCAGACGTTGCGGCCTCCCATGTCCCCCACCCTCTGCT
 GCAGCTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207917 representing NM_011125
 Red=Cloning site Green=Tags(s)

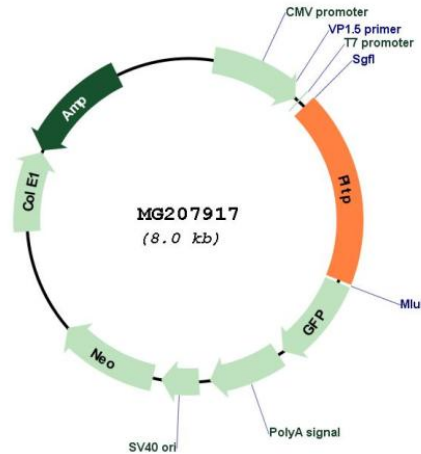
MVLLWALFLALLAGAHAE L PGCKIRVTSAALELVKQEG LRFLEQELETITIPDVY GAKGHFYNNISDVRV
 TQLHLISSELHFQPDQDLLLNISNASLGLHFRRQLLYWFLYDGGYINASAEGVSIRTGLQLSQDSSGRIK
 VSNVSC EASVSKMNMAFGGTFRRMYNFFSTFITSGMRFLLNQIQPVL YHAGTVLLNSLLDTPVRSSVD
 DLVGI DYSLLKDPVVSNGNLDMEFRGAFFPLKEDNWSLPNRAVEPQLEDDERMVYVAFSEFFDSAMESY
 FQAGALQLTLVGDKVPSDLMLLRATYFGSIVLLSPTVINSP LKLEATSPPRCTIKPSGTTISITASV
 TITLAPPMLPEVELSKMIMEGRLSAKLTLRGKALRVKLDLRRFQIYSNQSALES LALIPLQAPLKTLLQI
 GVMPLLNERTWRGVQIPLPEGINFVREVV TNHAGFVTVGADLHFAKGLREVIDKNRPADVAASHVPPPSA
 AAA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_011125

ORF Size: 1479 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_011125.2](#), [NP_035255.1](#)

RefSeq Size: 1806 bp

RefSeq ORF: 1482 bp

Locus ID: 18830

UniProt ID: [P55065](#)

Cytogenetics: 2 85.27 cM

Gene Summary: Facilitates the transfer of a spectrum of different lipid molecules, including diacylglycerol, phosphatidic acid, sphingomyelin, phosphatidylcholine, phosphatidylglycerol, cerebroside and phosphatidyl ethanolamine. Essential for the transfer of excess surface lipids from triglyceride-rich lipoproteins to HDL, thereby facilitating the formation of smaller lipoprotein remnants, contributing to the formation of LDL, and assisting in the maturation of HDL particles. PLTP also plays a key role in the uptake of cholesterol from peripheral cells and tissues that is subsequently transported to the liver for degradation and excretion. Two distinct forms of PLTP exist in plasma: an active form that can transfer PC from phospholipid vesicles to high-density lipoproteins (HDL), and an inactive form that lacks this capability (By similarity).[UniProtKB/Swiss-Prot Function]