

Product datasheet for **MG217244**

Plb1 (NM_001081407) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plb1 (NM_001081407) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Plb1
Synonyms: 4632413E21Rik; 4930433E17Rik; 4930539A06Rik; BC033606
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217244 representing NM_001081407
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGTACCCAGGTGTGTCCCGGTGGGACTGCTGCTGCTACTGCTGGGACAAGGGCCCTCCC
AAATCCATGGCTCTTCTGGAGAGAACACATTGGCATGGCAGTCCCAGCAAGTGTTTTGGACCCTGAAGAA
TTTTCCATTCCCTTGAAGCCAAAGAAGTTAGAATTGAGTGTGCTTTCTGAGTCAGTTCCTCTCTGAGA
CCCTCAGACATTAAGCTGTCGAGCCATCGGCAACCCAGAAATTCCTCTAGCCCCTGGGCTGGCAGCA
TCAACATGGAGAAACCTCAAAGCATCAAGAACCAACCACAGGATGTATGCATGGGAATCATGACAGTTCT
TTCAGATATCATCAGACATTTTCAGTCTTCTGTCTGATGCCACGTGTTCTCCTGGGAAGGGCACTGCA
GTCCCACTACTGCTGAAGATTTGTGGATTCAGGCTAAAGAGCTGGTGAGGCGCCTGAAGGACAACCCGC
AACTTGACTTTGAGAAGGACTGGAACTCATCACTGTGTTCTTCAGTAACACAAGCCAGTGTACCTGTG
TCCCTCTGCTCAGCAGAAAAGTCACTTGATGAGGCACATGGAGATGCTGTGGGGGTGCTGGATTACCTG
CATCATGAGGTCCCAGAGCATTGTGAATTTGGTGGATCTCTGAGGTTTTGGCCATGGATCTTCAGC
ATCAAGAGACTGGCTTCAGCCCTGCACCAGAGGTTTGAAATGCACAGAGACAACGACGCTATCCAAGC
TGTCATGCAAGTGGTCTATCAGGAAGCCTGGGAAGATCTTCTGGCCTCTAGCAAGTTCAACAAGCATGAG
ACCTTCGCGGTGGTTTTCCAGCCTTTCTCGATGAAATGAACCCCTTGAAAAGTCTCGCCCAGG
ATCCCACCACTCGCCCTCAGGATCTGGAATAGCATGATGGAACCAAGTGGGTCAAAGGATGGGCTACT
CAATACTGCAGAGAGAAAAGACAATGAAATGTCCCTCTGAGGAGAGTCCCTATCTGTTACCTACAAAAAT
AGCAACTACCAGGCCAGACGACTGAAACCTATAACAAAGCTTCAGATGAAAGAAGGATCAGAATTCACCT
GTCCTGACAAGAACCCTCGAACTCAATCCCCACAACAGTTTACAGCTTGCAGCCAGCTGATATCAAGAT
CATAGGAGCATTGGGTGACTCGCTCACGGCAGGCAATGGAGCTGGGGCCAGCCCTTGAATATCTTGGAT
GTCTTAACTGAATACCGAGGCCGTCTGGAGTGTGGGCGGGATGAGACCATCAAACCCGTGACCACCC
TACCCAACATTCTCCGGGAATTCACCCCTCCTTGAAGGGCTTTTCTGTTGGCACTGGGAAAGAAAGCAC
TTCCCAGCATCCTTCAACCAGCCGTAGCAGGAGCCAAATCTGATGGCTTAGCTGGCCAGGCCAGAAAG



[View online >](#)

CTGGTGGACCTGATGAAGGCAGACAAGACAATAAACTTTCAGGAAGACTGGAAGATAATCACTGTGTTTA
TAGGAGGCAATGACCTCTGTGCTTCTGCGAGTAACTCGACTCGCTTTTCTCCCAAACTTCATAGACAA
CATCAAGAACGCCCTGGACATCCTCCATGCAGAGGTTCCACGGGCCTTTGTGAACATGGCAATGGTGATG
GAGATCACCCCTTGAGAGAAGTATTCAATGAACCTACAGTCTCATGCCACGGAACATCCTCAGCCGAC
TGTGTCCTTGTGCTCTGGGCCTTGGTGATAACTCAGAAGAAGTTCAGCCTCGTTCAAAGGAACAGGGA
TTATCAGAAGAAAAGTGAAGACTCATTAAATAGCGGACGATATGACACGAGGGATAATTTCACTGTGGTT
GTCCAGCCCTTATTTGAAAATGTGTCCATGCCACGGACCCGGAGGGCGTGCCCGACAAGTCTTTCTTTG
CCCCTGACTGTTTCCACTTAAATGCCAAGACTCATGCCGCTCAGCCATTGCCCTCTGGAAGAACATGCT
GGAACCTGTGGCCACAAGACAAGACATAATAATTTTGAATCAAGGCCCTATCGTGTGCCGAACCCAG
GCCTCGCCATTTCTGAGCACTACCAAGAAGCAGCAACCTGGGTAATGGAACCTGGATGGTGTGCGAGGAGA
GAGCCCTTCTGCCTCACCACCAACCTCAGTGCATACCCTGAGACCTGCAGACATTCAAGTTGTGGCAGC
TCTGGGAGACTCTGACTGCTGGAATGGAATCAGTCCCAAGAAGGTAACTCACCAGTGTCTCCACA
CAGTATCGAGGACTGCTCTATAGTGTGGTGGGACAAGACCCTGGAGAATGTGACCACTTTGCCAATA
TCCTACGAAAATTAATGAAAATCTCACAGGCTACTCAGTAGGAACCGGTGACTCCAGTTCGCAAAACGC
TTTCCTTAACCAGGCTGTCCCTGGGGCGAAGGCTGAGAACCTTACAAGCCAAGTCCGGACTCTGGTTCAG
AAGATGAAGAGTGACAACAGAGTGAACCTCAACCGAGACTGGAAGGTATCACGGTGATGATCGGGCCCA
GTGACTTGTGTGACTTCTGCACGGATTCAATCATTACTCTGCAGCAATTTTTTTGACCATCTCCAAAA
TGCTTGGACATTCTACATAAGGAGGTACCCAGAGCCCTGGTCAACCTTGTGGACTTCATTAACCCAGT
ATCATTGGGAAGTATTCTGAAGAACCAGACAAGTGCCAGTGAATCAGTCCAGTGTCTGTGCAACT
GTGTTCTGACCCCGAGGAAGGATTCCTATGAGCTGGCAAGGTTGGAGGCCTTACCAAATCTACCAGAG
TAGCATGTCCAAGTGGTTGAGTCAAGCCGCTACGACACTCGAGAGGACTTCTCTGTGGTACTGCAGCCC
TTTCTCCTCAACCAAGCTCCCTGTCTAGAGAACGGGAAACCAGATACATCCTTTTGGCCAGACT
GCATCCACCTAAACCAGAAGTTCACACTCAGCTCGCGAGAGCCCTCTGGGCAATATGCTTGAACCCCT
GGGAAAGAAAAGTGAATCTTGGACCCAAAAGGACACATATCTTTGGCCTGCCCCACAAGGATCAGCCC
TTCTGAGAACCTTCGAAAACAGTAACACAAAGTATCCTACCAAGCCAGCCATTGAGAAGTGGGGCAGTG
ACTTCTGTGCACAGAGAAGAGCCCTTCCAGCCAGGTACCCACCTCAGTTCATGAGCTCCGACCAGCAGA
CATCAAGGTGGTGGCAGCAATGGGTGACTTTCTGACTACAGCCACCGGAGCTCGGCAAGTGGATAAAA
AGGCTAGCCACGCCCTGGAGGGGCTGTCTTGGAGCATTGGAGGAGATGGAAAGTGGAGACCCATACCA
CACTTCCCAACATCCTGAAGAAGTTCACCCCTCCATCACTGGATTCTCTACTGGTACCCTGGACAACAA
GGCAGGATTAATGTGGCAGAAGAAGGAGCCAGAGCTCAGGACATGCCGGCCAGGCTAAGACCCTGGTG
AAGAAGATGAAAAGCACACCTACAATCAACCTACAGGAAGACTGGAAGCTGATTACACTCCTCATTGGAA
ACAACGACCTGTGCTTTACTGTGAGAATCCGGAGGACAACCTCAACTAAAGAGTATGTCAAGTACATCCA
GCAAGCCTTGGACATCCTCTATGAGGAGCTTCCAGAGTTTTTCAATGTGGTGGAAAGTATGGAGCTG
GCTGGCCTGCACCACGTCCAAGGTGGGAAATGTGCCATGCCACTGGCAGTTTCAAGAAAAGTGCAGTTGCT
TAAGACTCCTCAAAACCTCACAGCGATGCAGGAGCTGAAGAAAAGTAACTGGAACCTCCAGAGCGGCAT
CTCCGAGCTCTCCTATTGGCACCAGTACATGGAGCGTGGAGACTTCGAGTCACTGTGCAGCCTTTCTTC
CGGAATACCTTTATCCCACTGAATGAGCGTGGAGGCTGGACCTCACTTTCTTCTCTGAAGACTGTTTCT
ACTTCTCAGACCGTGGGCATGCTGAGATGGCCATTGCCCTCTGGAATAACATGCTGGAACCAAGTGGGCTG
GAAGACATCCTCAATAACTTCATATAACAACAGAACCAAACTCAAGTGCCCTCACCTGAAAGCCCTTTTC
CTCTACCCCTCCGGAATAGTCAGCTTCTTCCAGACAAGGCTGAAGAACCCTCCAATGCACTCTACTGGG
CAGTGCCAGTGGCAGCAATAGGTGGCCTGGCAGTTGGCATCCTTGGAGTATGTTGTGGAGAAGTGTGAA
ACCCGTCACAGGAGGAGGAGGAGGAGGACACTTCCAAATACAAGTGTGACCCAGGATGCTGTATCA
GAAAAGAGGCTCAAAGCTGGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

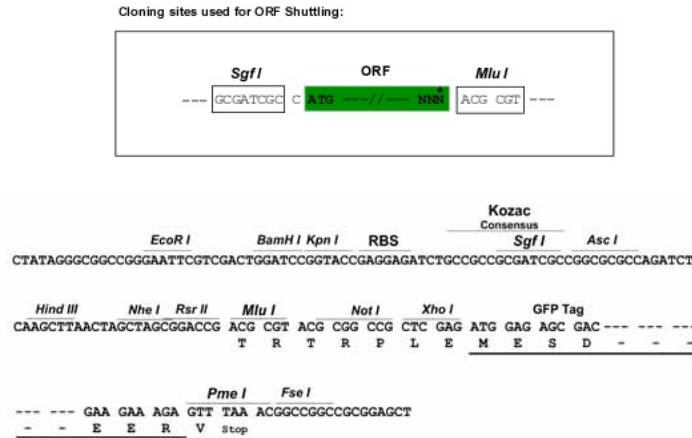
Protein Sequence: >MG217244 representing NM_001081407
 Red=Cloning site Green=Tags(s)

MELYPGVSPVGLLLLLLLGGQPSQIHGSSGENTLAWQSQQVFWTLKNFPFPCKPKKLELSVLSVHSLR
 PSDIKLVAAGNPEIPLAPGSGTINMEKPQSIKNQPQDVMGIMTVLSDIIRHFSPSVLMPTCSPGKGTA
 VHTTAEDLWIQAKELVRRLLKDNPLDFEKDWKITVFFSNTSQCHLCPSAQQKSHLMRHEMLWGVDYL
 HHEVPRAFVNLVDLSEVLAMDLOHQETGFSPAPEVCKCTETTTLSKAVMQWSYQEAWEDLLASSKFNKHE
 TFAVVFQPFDEIEPPLKRSPQDPTTLLALRIWNSMMEPVGQKDLLNTAERKTMKCPSEESPYLFTYKN
 SNYQARRLKPITKLQMKEGSEFTCPDKNPSNSIPTTVHSLRPADIKIIGALGDSL TAGNGAGASPNWILD
 VLTEYRGLSWSVGGDETIKTVTTLPNILREFNPSLKGFSVGTGKESTRASFNQAVAGAKSDGLAGQARK
 LVDLMKADKTINFQEDWKIITVFIGGNDLCASCSNSTRFSPQNFIDNIKNALDILHAEVPRAFVNMAMVM
 EITPLREL FNEPTVSCPRNIL SRLCPCVGLGDNSEELSSLVQRNRDYQKKTEEL INSGRYDTRDNFTVV
 VQPLFENVSMRTPPEGVPDKSFFAPDCFHNAKTHARSAIALWKNMLEPVGHKTRHNNFEIKAPIVCPNQ
 ASPFLSTTKNSNLGNGTWMVCEERAPSASPTSVHTLRPADIQVVAALGDSL TAGNGISSQEGNL TDVST
 QYRGLSYSAGGDKTLENTTLPNILRKFNGNL TGYSVGTGDSANAFNLQAVPGAKAENLTSQVRTLVQ
 KMKSDNRVNFNRDWKIVITVMIGASDLCDFCTDSNHYSANFFDHLQNALDILHKEVPRALVNLVDFINPS
 IIREVFLKNPDKCPVNSVLCNCVLT PRKDSYELARLEAFTKSYQSSMLQLVESGRYDTRDFSVVLQP
 FLLNNTKLPVLENGKPDTSFFAPDCIHLNQKFHTQLARALWANMLEPLGKKTDTLDPKGHI SLACPTKDQP
 FLRTFRNSNYKYPTKPAIENWGSDFLCTEKSPSSQVPTS VHEL RPADIKVVAAMGDFLTTATGARPSGYK
 RLATPWRGLSWSIGDGGKLEHTTLPNILKKNFNSITGFSTGTLDNKAGLNVAEEGARAQDMPAQAKTLV
 KMKKSTPTINLQEDWKLITLLIGNNDLCLYCENPEDNSTKEYVKYIQQALDILYEELPRVF INVVEVMEL
 AGLHHVQGGKCAMPLAVQKNCSCLRHSQNL TAMQELKKNLWNLQSGISELSYWHRYMEREDFAVTVQPF
 RNTFIPLNEREGLDLTFSEDCFYFSDRGAEMAIALWNNMLEPVGWKTSNNFIYNRTKLKCPSPERPF
 LYTLRNSQLLPDKAEEPSNALYWAVPVAIIGGLAVGILGVMLWRTVKPVQEEEEEDTLPNTSVTQDAVS
 EKRLKAGN

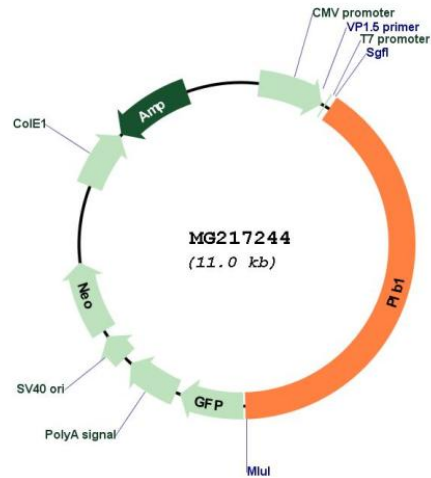
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001081407

ORF Size: 4434 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:	<u>NM_001081407.1</u> , <u>NP_001074876.1</u>
RefSeq Size:	4853 bp
RefSeq ORF:	4437 bp
Locus ID:	665270
UniProt ID:	<u>Q3TTY0</u>
Cytogenetics:	5 B1
Gene Summary:	Membrane-associated phospholipase. Exhibits a calcium-independent broad substrate specificity including phospholipase A2/lysophospholipase activity. Preferential hydrolysis at the sn-2 position of diacylphospholipids and diacylglycerol, whereas it shows no positional specificity toward triacylglycerol. Exhibits also esterase activity toward p-nitrophenyl. May act on the brush border membrane to facilitate the absorption of digested lipids (By similarity). [UniProtKB/Swiss-Prot Function]