

## Product datasheet for MR217244

### Plb1 (NM\_001081407) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plb1 (NM_001081407) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plb1
Synonyms:	4632413E21Rik; 4930433E17Rik; 4930539A06Rik; BC033606
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217244 representing NM_001081407 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
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CTGGTGGACCTGATGAAGGCAGACAAGACAATAAACTTTCAGGAAGACTGGAAGATAATCACTGTGTTTA  
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**Protein Sequence:** >MR217244 representing NM\_001081407  
 Red=Cloning site Green=Tags(s)

MELYPGVSPVGLLLLLLLGGQPSQIHGSSGENTLAWQSQQVFWTLKNFPFPCKPKKLELSVLSVHSLR  
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 FLLNNTKLPVLENGKPDTSFFAPDCIHLNQKFHTQLARALWANMLEPLGKKTDTLDPKGHI SLACPTKDQP  
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 KMKKSTPTINLQEDWKLITLLIGNNDLCLYCENPEDNSTKEYVKYIQQALDILYEELPRVF INVVEVMEL  
 AGLHHVQGGKCAMPLAVQKNC SCLRHSQNL TAMQELKKNWNLQSGISELSYWHRYMEREDFAVTVPFF  
 RNTFIPLNEREGLDLTFFSEDCFYFSDRGHAEMAIALWNNMLEPVGWKTSNNFIYNRTKLKCPSPERPF  
 LYTLRNSQLLPDKAEEPSNALYWAVPVAIIGGLAVGILGVMLWRTVKPVQQEEEEEDTLNPTSVTQDAVS  
 EKRLKAGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9001\\_b07.zip](https://cdn.origene.com/chromatograms/mm9001_b07.zip)

**Restriction Sites:** SgfI-MluI

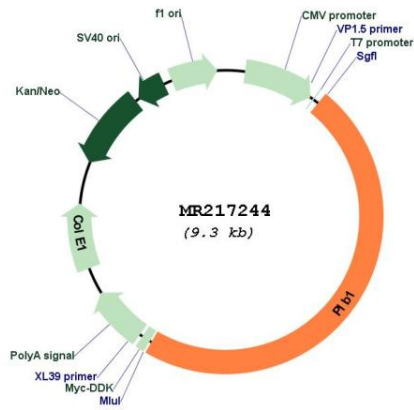
**Cloning Scheme:**



**ACCN:** NM\_001081407

<b>ORF Size:</b>	4434 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001081407.1</a> , <a href="#">NP_001074876.1</a>
<b>RefSeq Size:</b>	4853 bp
<b>RefSeq ORF:</b>	4437 bp
<b>Locus ID:</b>	665270
<b>UniProt ID:</b>	<a href="#">Q3TTY0</a>
<b>Cytogenetics:</b>	5 B1
<b>MW:</b>	165 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR217244