OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR215680

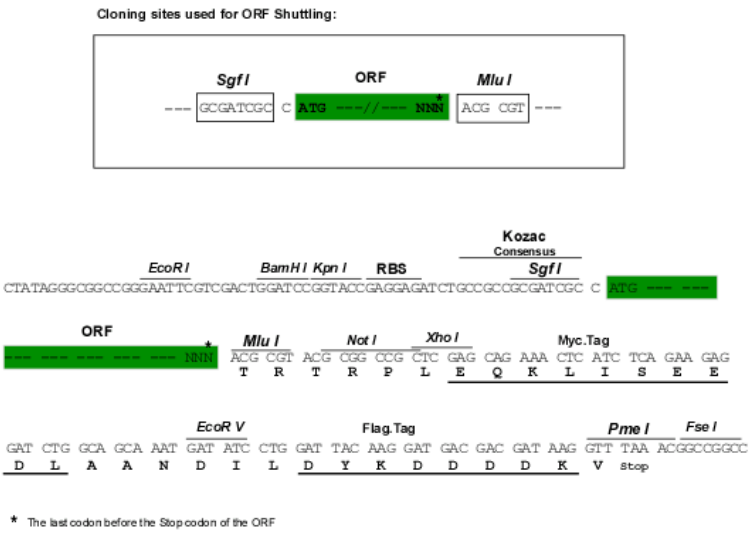
Plb1 (NM_172147) Mouse Tagged ORF Clone

Product data:

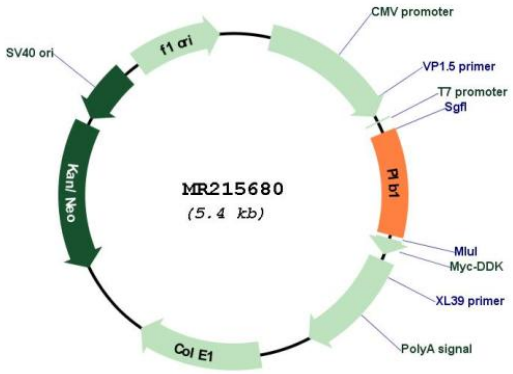
Product Type:	Expression Plasmids
Product Name:	Plb1 (NM_172147) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plb1
Synonyms:	4632413E21Rik; 4930433E17Rik; 4930539A06Rik; BC033606
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR215680 representing NM_172147 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCAGGAGCTGAAGAAACTAAACTGGAACCTCCAGAGCGGCATCTCCGAGCTCTCCTATTGGCACCGGT ACATGGAGCGTGAGGACTTCGCAGTCACTGTGCAGCCTTTCTTCCGGAATACCTTTATCCCACTGAATGA GCGTGAGGGCCTGGACCTCACTTTCTTCTCTGAAGACTGTTTCTACTTCTCAGACCGTGGGCATGCTGAG ATGGCCATTGCCCTCTGGAATAACATGCTGGAACCAGTGGGCTGGAAGACATCCTCCAATAACTTCATAT ACAACAGAACCAAACTCAAGTGCCCCTCACCTGAAAGGCCTTTCCTCTACACCCTCCGGAATAGTCAGCT TCTTCCAGACAAGGCTGAAGAACCCTCCAATGCACTCTACTGGGCAGTGCCAGTGGCAGCAATAGGTGGC CTGGCAGTTGGCATCCTTGGAGTGATGTTGTGGAGAACTGTGAAACCCGTCCAACAGGAGGAGGAGGAGG AGGACACTCTTCCAAATACAAGTGTGACCCAGGATGCTGTATCAGAAAAGAGGCTCAAAGCTGGGAAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR215680 representing NM_172147 Red=Cloning site Green=Tags(s) MQELKKLNWNLQSGISELSYWHRYMEREDFAVTVQPFFRNTFIPLNEREGLDLTFFSEDCFYFSDRGHAE MAIALWNNMLEPVGWKTSSNNFIYNRTKLKCPSPERPFLYTLRNSQLLPDKAEEPSNALYWAVPVAAIGG LAVGILGVMLWRTVKPVQQEEEEEDTLPNTSVTQDAVSEKRLKAGN TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_172147

ORF Size: 558 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_172147.2, NP_742159.1

RefSeq Size: 763 bp

RefSeq ORF: 561 bp

Locus ID: 665270

Cytogenetics: 5 B1

MW: 21.9 kDa

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 diacyglycerol, 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]