

Product datasheet for **MR217687**

Pla2g4b (NM_145378) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4b (NM_145378) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g4b
Synonyms:	A030011C02Rik; cPLA2-beta; Gm1013
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217687 representing NM_145378
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTGCAAACCTGCCAGTCTACATGCGAGCAAAGGTGCCAGAGACATGCCTGCTCACTGTACGCG
 TCCTCCGGGCCAGTGGCTTGCCCTCCAAGGACCTAGTAACCTCCTCTGACTGCTATGTGACTCTGAACCT
 GCCCACGGCTTCCAGCCACACGCTCCAGACACGCACAGTCAAGAACAGCCGAAACCCTGTCTGGAATCAG
 AACTTCCACTTCCGGATCCATAGGCAGCTCAAGAATGTTATGAACTGAAAGTCTTTGACCATGACCTGG
 TGACCAGAGATGACCCAGTATTGTCACTGCTGTTGACGTGGGGACCCTGCAAATGGGACTCAGCGCCA
 GAGCTTCTCCTGGTACTCAGGAGAAAGGGTCTTAGAAGTTGAGTTTCGGCTACAGACTCTGACAGAC
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 CTCTATGAGGACCCAGAGTGGTGCAGAAAGGACCTGGCAGGGCCCACTGAGGTGCTGAAGACACAGGTGA
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 GCTGTGCTGCACTTCCCTTTGGTCAATGACTCCTTCCAAGACTACTCTGCCCTGGGGTGGCCACGGACAT
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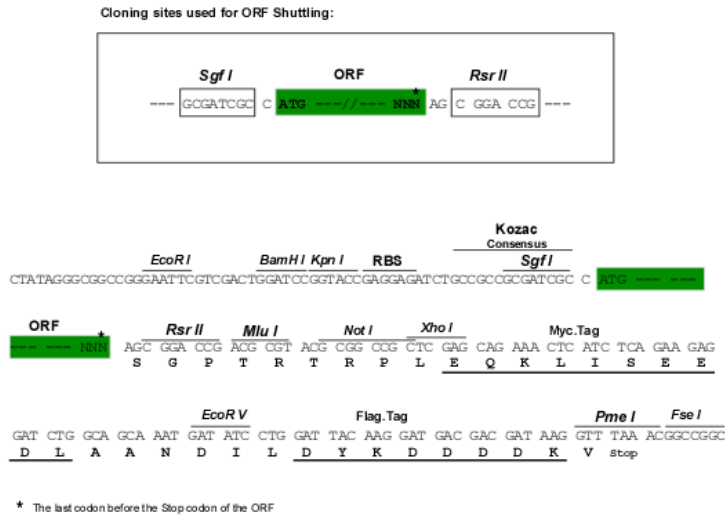
Protein Sequence: >MR217687 representing NM_145378
Red=Cloning site Green=Tags(s)

MALQTCPVYMQAKVPETCLLTVRVLRASGLPSKDLVTSSDCYVTLNLPASSHTLQTRTVKNSRNPVWNQ
NFHFRIHRQLKNVMELKVFHDHLDVTRDDPVL SVLFDVGTLQIGTQRQSFSLGTQEKGCLEVEFRLQTLTD
CEEQLISNGIVVARELSCLHVELKRTGDPKRSEKRVQLVVAGACEGPQDASAGTGSFHFHYPACWEQELN
VHLQDDPHEQLKVPLRTLPSSQLVRLVFPTSQEPLMRLELKKEEGPKELAVRLGCGPCPEEQAFLSKRKQ
VVAALKKALQLDQDLHEDEIPVIAVMATGGGIRAMTSLYGQLAGLQELGLLDCISYITGASGSTWALAN
LYEDPEWSQKDLAGPTEVLKTQVTKSKLGALAPSQLWRYRQELAEARARLGHPTCFNLWALINEALLHDK
PHEHKLSQREALSRGQNPLPIYCALNSKEQGLSTDFGEWCEFSPYEVGFPKYGAFISSELFGEFFMG
RLVKQLPESRICFLEGIWSNLF AASLQDSL YWSSEPSQFWRWAQDQANLDKEQVPHLKIAEPPTMAGRI
AELFTDLLTKRPLAHATHNFTRGLHFHKDYFQNSHFSAWKASKLDRLPNQLTPTEPHLCLLDVGYLINTS
CPPLLQPTRDVLILSLDYNLYGAFQQLQLLSRFCEQGIPFPSISPSPEEQRPQECHLFCDPAQPEAP
AVLHFPLVNSFQDYSAPGVPTSEEKAAGEVNLSSSDSPYHYTKVTYSQEDVDKLLRLTHYNICNNQDR
LREAMHQAVQRRRKRKQFRPE

SGPTRRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9097_h05.zip

Restriction Sites: Sgfl-RsrII

Cloning Scheme:


ACCN: NM_145378

ORF Size: 2373 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_145378.4](#), [NP_663353.3](#)

RefSeq Size: 3859 bp

RefSeq ORF: 2376 bp

Locus ID: 211429

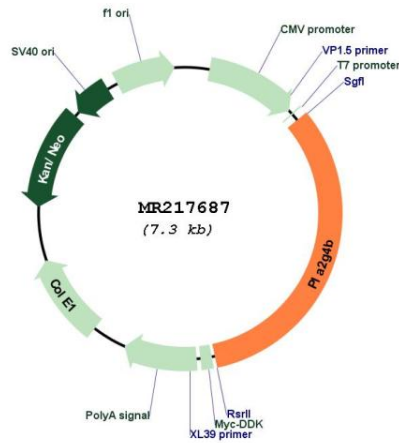
UniProt ID: [P0C871](#)

Cytogenetics: 2 E5

MW: 89.5 kDa

Gene Summary: Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position with a preference for arachidonoyl phospholipids. Has a much weaker activity than PLA2G4A (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217687