

## Product datasheet for MR201855

### Pla2g12a (BC026812) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pla2g12a (BC026812) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pla2g12a  
**Synonyms:** mGXII-1-PLA2, MGC58884, GXII, mGXII-1, Rossy  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201855 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGTGACTCCGCGGCCCGCGCCCGCCGGGGCCCGCGCTCCTCCTCCTCTGCTGCTGGCCACTGCGC  
 GCGGGCAGGAACAGGACCAGACCACCGACTGGAGGGCCACCCTCAAGACCATCCGCAACGGCATCCACAA  
 GATAGACACGTACCTCAACGCCGCGCTGGACCTGCTGGCGGGGAGGACGGGCTCTGCCAGTACAAGTGC  
 AGCGACGGATCGAAGCCTGTTCCAGCTATGGATATAAACCATCTCCACCAAATGGCTGTGGCTCTCCAC  
 TGTTTGGCGTTCATCTGAACATAGGTATCCCTTCCTGACCAAGTGTGCAACCAGCAGCAGATGCTA  
 TGAGACCTGCGGGAAAAGCAAGAACGACTGTGACGAGGAGTTCAGTACTGCCTCTCCAAGATCTGCAGA  
 GACGTGCAGAAGACGCTCGGACTATCTCAGAACGTCCAGGCATGTGAGACAACGGTGGAGCTCCTTTTG  
 ACAGCGTCATCCATTTAGGCTGCAAGCCATACCTGGACAGCCAGCGGGCTGCATGCTGGTGTGTTATGA  
 AGAAAAACAGATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201855 protein sequence  
 Red=Cloning site Green=Tags(s)

MVTRPAPARGPALLLLLLLATARGEQDQTTDWRATLKTIRNGIHKIDTYLNAALDLLGGEDGLCQYKC  
 SDGSKVPRYGYKPSPPNGCSPLFGVHLNIGIPSLTKCCNQHDRCYETCGKSKNDCDEEFQYCLSKICR  
 DVQKTLGLSQNVQACETTVELLFDVSIHLGCKPYLDSQRAACWCRYEEKTDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: BC026812

ORF Size: 576 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: [BC026812](#), [AAH26812](#)

RefSeq Size: 1022 bp

RefSeq ORF: 578 bp

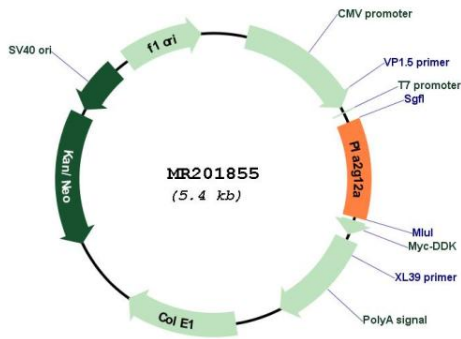
Locus ID: 66350

Cytogenetics: 3 G3

**MW:** 21.3 kDa

**Gene Summary:** PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Does not exhibit detectable activity toward sn-2-arachidonoyl- or linoleoyl-phosphatidylcholine or -phosphatidylethanolamine (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201855