

Product datasheet for **MG218553**

Pla2g12a (NM_023196) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g12a (NM_023196) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pla2g12a
Synonyms: 2310004B05Rik; GXII; GXII-1; GXII-1-PLA2; mGXII-1; Pla2g12; Rossy
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218553 representing NM_023196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGTGACTCCGCGGCCCGCGCCCGCCGGAGCCCGCGCTCCTCCTCCTCTGCTGCTGGCCACTGCGC
 GTGGGCAGGAACAGGACCAGACCACCGACTGGAGGGCCACCCTCAAGACCATCCGCAACGGCATCCACAA
 GATAGACACGTACCTCAACGCCGCGCTGGACCTGCTGGCGGGGAGGACGGGCTCTGCCAGTACAAGTGC
 AGCGACGGATCGAAGCCTGTTCCAGCTATGGATATAAACCATCTCCACCAAATGGCTGTGGCTCGCCAC
 TGTTTGGCGTTCATCTGAACATAGGTATCCCTTCCTGACCAAGTGTGCAACCAGCAGCAGATGCTA
 CGAGACCTGCGGGAAAAGCAAGAACGACTGTGACGAGGAGTTCAGTACTGCCTCTCCAAGATCTGCAGA
 GACGTGCAGAAGACGCTCGGACTATCTCAGAACGTCCAGGCATGTGAGACAACGGTGGAGCTCCTCTTTG
 ACAGCGTCATCCATTTAGGCTGCAAGCCATACCTGGACAGCCAGCGGGCTGCATGCTGGTGTGTTATGA
 AGAAAAACAGATCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218553 representing NM_023196
 Red=Cloning site Green=Tags(s)

MVTPRPAPARSPALLLLLLLATARGQEQQDQTTDWRATLKTIRNGIHKIDTYLNAALDLLGGEDGLCQYKC
 SDGSKPVPYGYKPSPPNGCGSPLFGVHLNIGIPSLTKCCNQHDCRYETCGKSKNDCDEEFQYCLSKICR
 DVQKTLGLSQNVQACETTVELLFDSVIHLGCKPYLDSQRAACWCRYEEKTDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_023196

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: [NM_023196.4](#)

RefSeq Size: 1541 bp

RefSeq ORF: 579 bp

Locus ID: 66350

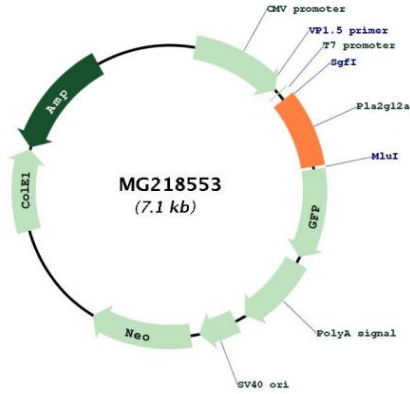
UniProt ID: [Q9EPR2](#)

Cytogenetics: 3 G3

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 MG218553