

Product datasheet for MR218553

Pla2g12a (NM_023196) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g12a (NM_023196) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pla2g12a
Synonyms: 2310004B05Rik; GXII; GXII-1; GXII-1-PLA2; mGXII-1; Pla2g12; Rossy
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR218553 representing NM_023196
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGACTCCGCGGCCCGCGCCCGCCGAGCCCGCGCTCCTCCTCCTCTGCTGCTGGCCACTGCGC
GTGGGCAGGAACAGGACCAGACCACCGACTGGAGGGCCACCTCAAGACCATCCGCAACGGCATCCACAA
GATAGACACGTACCTCAACGCCGCTGGACCTGCTGGCGGGGAGGACGGGCTCTGCCAGTACAAGTGC
AGCGACGGATCGAAGCCTGTTCCAGCTATGGATATAAACCATCTCCACCAAATGGCTGTGGCTCGCCAC
TGTTTGCGTTCATCTGAACATAGGTATCCCTTCCTGACCAAGTGTGCAACCAGCAGCAGATGCTA
CGAGACCTGCGGGAAAAGCAAGAACGACTGTGACGAGGAGTTCAGTACTGCCTCTCCAAGATCTGCAGA
GACGTGCAGAAGACGCTCGGACTATCTCAGAACGTCCAGGCATGTGAGACAACGGTGGAGCTCCTTTG
ACAGCGTCATCCATTTAGGCTGCAAGCCATACCTGGACAGCCAGCGGGCTGCATGCTGGTGTGTTATGA
AGAAAAACAGATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218553 representing NM_023196
Red=Cloning site Green=Tags(s)

MVTPRPAPARSPALLLLLLLATARGQEQQDQTTDWRATLKTIRNGIHKIDTYLNAALDLLGGEDGLCQYKC
SDGSKPVPYRYGKPSPPNGCGSPLFGVHLNIGIPSLTKCCNQHDRCYETCGKSKNDCDEEFQYCLSKICR
DVQKTLGLSQNVQACETTVELLFDSVIHLGCKPYLDSQRAACWCRYEEKTDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

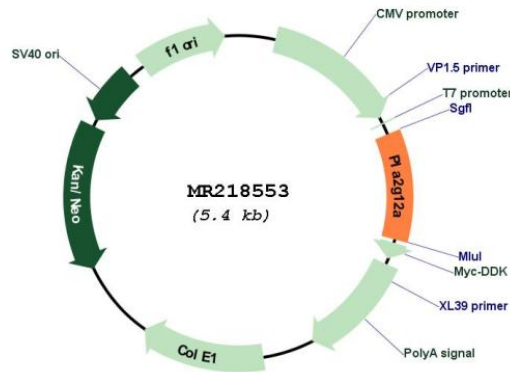


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Cloning Scheme:



Plasmid Map:



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

MW: 21.8 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]