

Product datasheet for **MG219162**

Pla2g12a (NM_183423) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g12a (NM_183423) 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: >MG219162 representing NM_183423
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGACTACCACAGTGGTCTCGGGAAGTACTGGGAGCCATTTGCCTTTCCTGTAGGCTGTTCCGGGA
CAGAAGAAGAAGAAGGTCTCAGGATTGGAAGATCGAAGCCTGTTCCACGCTATGGATATAAACCATCTCC
ACCAAATGGCTGTGGCTCGCCACTGTTTGGCGTTCATCTGAACATAGGTATCCCTCCCTGACCAAGTGC
TGCAACCAGCACGACAGATGCTACGAGACCTGCGGGAAAAGCAAGAACGACTGTGACGAGGAGTTCCAGT
ACTGCCTCTCCAAGATCTGCAGAGACGTGCAGAAGACGCTCGGACTATCTCAGAACGTCCAGGCATGTGA
GACAACGGTGGAGCTCCTTTGACAGCGTCATCCATTTAGGCTGCAAGCCATACCTGGACAGCCAGCGG
GCTGCATGCTGGTGTCTGTTATGAAGAAAAACAGATCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG219162 representing NM_183423
Red=Cloning site Green=Tags(s)

MKDYHSGPGKYWEPFAFPVGCSTEEEEGLRIGRSKPVPRYGYKPSPPNGCGSPLFGVHLNIGIPSLTKC
CNQHDCRYETCGKSKNDCDEEFQYCLSKICRDVQKTLGLSQNVQACETTVELLFDVSIHLGCKPYLDSQR
AACWCRYEEKTDL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

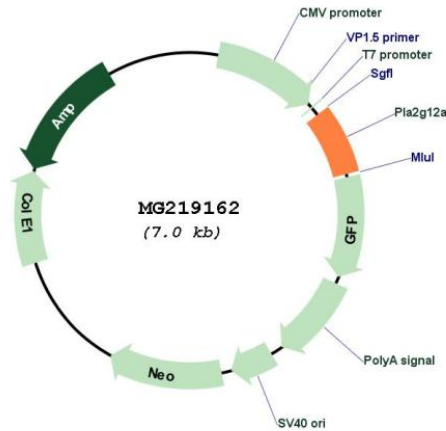


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Cloning Scheme:



Plasmid Map:



ACCN: NM_183423

ORF Size: 459 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:	<ol style="list-style-type: none">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:	<u>NM_183423.3</u>
RefSeq Size:	1340 bp
RefSeq ORF:	462 bp
Locus ID:	66350
UniProt ID:	<u>Q9EPR2</u>
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]