

Product datasheet for **MG223111**

Pla2g2d (NM_011109) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g2d (NM_011109) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pla2g2d
Synonyms: mGIID; Splash
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223111 representing NM_011109
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGACTCGCCCTGCTGTGTGGGCTGCTGCTGGCCGGTATAACTGCAACCCAGGGAGGGCTCCTGAACC
 TGAACAAGATGGTCACACACATGACGGGAAGAAAGCCTTCTTCAGCTACTGGCCCTACGGCTGTCACTG
 TGGACTTGGTGGCAAAGGGCAACCCAAAGATGCCACAGACTGGTGTGTCAGAAGCATGATTGTTGCTAT
 GCCCACCTGAAGATCGATGGATGCAAGAGCCTGACAGACAACATAAAATACAGCATCTCCAGGGCACTA
 TCCAGTGTCTGACAACGGGAGCTGGTGTGAAAGGCAACTGTGTGCTTGTGACAAGGAGGTGGCCTTGTG
 CTGAAGCAAAACCTGGATAGCTACAATAAGCGCCTGCGTTACTACTGGCGGCCCGTTGCAAAGGCAAG
 ACTCCAGCATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223111 representing NM_011109
 Red=Cloning site Green=Tags(s)

MRLALLCGLLAGITATQGGLLNLMVTHMTGKKAFFSYWPYGCHCGLGGKQPKDATDWCCQKHDCCY
 AHLKIDGCKSLTDNYKYSISQGTIQCSDNQSWCERQLCACDKEVALCLKQNLDSYNKRLRYWRPRCKGK
 TPAC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

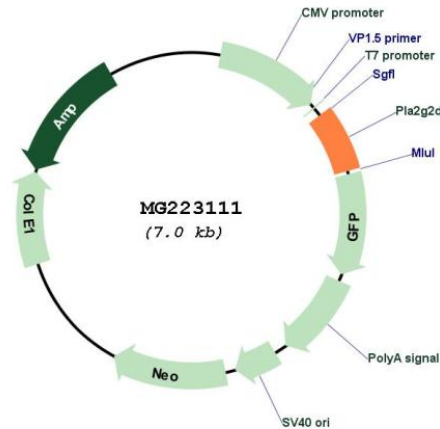


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Cloning Scheme:



Plasmid Map:



ACCN: NM_011109

ORF Size: 432 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_011109.3</u>
RefSeq Size:	2264 bp
RefSeq ORF:	435 bp
Locus ID:	18782
UniProt ID:	<u>Q9WVF6</u>
Cytogenetics:	4 70.57 cM
Gene Summary:	PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. L-alpha-1-palmitoyl-2-linoleoyl phosphatidylethanolamine is more efficiently hydrolyzed than the other phospholipids examined.[UniProtKB/Swiss-Prot Function]