

## Product datasheet for **MG220245**

### Pla2g4f (NM\_001024145) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4f (NM_001024145) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pla2g4f
Synonyms:	4732472I07Rik; Gm647; Pla2zeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220245 representing NM\_001024145  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTGGACTCTCCAGCCAAAGTGGCTGGCAGGCAAGGACTTCCCCTTCTTGAGCCATACTGCTAC  
 GGAAGACAGAAAAGAGCGAACCAATGGAAGCATAGGCGGAAACCCACCCGACTACGACCTTCAAGT  
 GAAGGTGCTGAGGGCCAGAAACATCCAGCACACAGATAAGTTGTCCAAAGCCGACTGCTATGTTCCGACTG  
 TGGCTGCCACGGCTTCTGTTAGCCCCAGTCAGACAAGGACAGTGGTTAACAGCAGTGATCCAGAATGGA  
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 ACAAAAACTTACCAGGCAGCAGGATCCAAAGGAGCTGGAAGTAGAATTTACTCTGGAAAAGAGTCAGA  
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 CACTGGAGACAAGACAGCCTCCCTTGGAGAGTTGGGCTCCAGGCAGATCCAGCTGGCAGTGCCTGGGGCC  
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 TCGGCTGGTGACCCTGAGCCGATACAACGCTTGAACAACAAGGAGACTATCAGGCATGCCTCCAGCTG  
 GCTCTGGACCGCGCGGCGAGGCTGGGGAAAGGTTGGGGC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220245 representing NM\_001024145  
 Red=Cloning site Green=Tags(s)

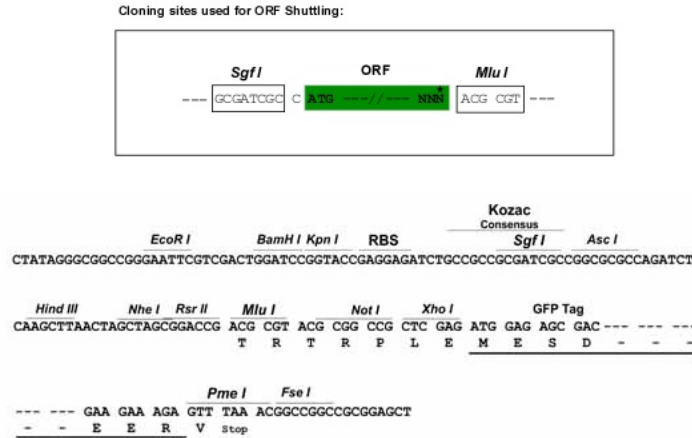
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MPWTLQPKWLAGKGLPLLGAILLRKTEKSEPQWKHRRETHPYDYLQVKVLRARNIQHTDKLSKADCYVRL
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TKNFRQQDPKELEVEFTLEKSQTPASEVVTNGVLAHPCLRIQGTVTGDKTASLGELGSRQIQLAVPGA
YEKPQPLQPTSEPGLPVNFTFHMNPVLSPKLHIKLEQLQVFHSGPSDELEAQTSMKDKASILLSSLPLN
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ERVCSSKIGMLSPKQFEYYSREKRAWESRGHSMSTDLWGLIIIEYFLNQEENPAKLSQQETVSQQQNPY
PIYASINVHKNISGDYFAEWCEFTPYEVGFPKYGVYVPTLFGSEFFMGRLLHFWEPRICYLQGMWGS
FAASLYEIFLKLGGLSLFLDWHRGSVSVTDDWPKLRKQDPTLPTLFTPMSSFSQAVLDIFTSRITCA
QTFNFTRGLCMYKDYTARKDFVVEDAWHSHNYGYPDACPNQLTPMKDFLSLVDGGFAINSFPLVLQPQ
RAVDLIVSFDYSLEGPFEVLQVTEKYCRDRGIPFPRIEVDPKDSEDPRECYLFTAEDPCSPIVLHFPLV
NRTFRTHLAPGVERQTAEEKAFGDFIINGPDTAYGMMDFTYEPKEFDRLVTLSTRYNVLNNKETIRHALQL
ALDRRRQAGGRVGG
  
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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001024145

ORF Size: 2565 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\\_001024145.2](#), [NP\\_001019316.1](#)

**RefSeq Size:** 3125 bp

**RefSeq ORF:** 2568 bp

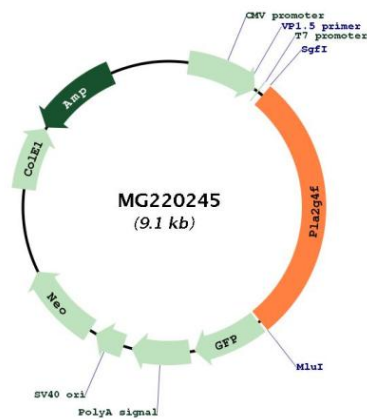
**Locus ID:** 271844

**UniProt ID:** [Q50L41](#)

**Cytogenetics:** 2 E5

**Gene Summary:** Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position. Has higher enzyme activity for phosphatidylethanolamine than phosphatidylcholine.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG220245