

## Product datasheet for **RR209824**

### Pla2g5 (NM\_017174) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pla2g5 (NM\_017174) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Pla2g5  
**Synonyms:** MGC93513  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR209824 representing NM\_017174  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCGCCTCCTCACGCTGGCTTGGTTCCTGGCTTGCAGTGTGCCTGCAGTCCAGGGGGCTTGCTAG  
AACTGAAGTCCATGATTGAGAAGGTGACTGGGAAGAATGCCGTAAGAAGTATGGCTTCTACGGCTGCTA  
CTGTGGCTGGGGCGCCACGGGACCCCTAAGGATGGCACTGATTGGTGTGTCGGATGCACGACCGTTGT  
TATGGGCTACTGGAGGAGAAACTGTGCCATCCGGACCCAGTCCTATGACTACAGATTCACACAGGACT  
TAGTCATCTGCGAACACGACTCCTTCTGTCCAGTGAGGCTTTGTGCTTGTGACCGGAAGCTGGTCTACTG  
CCTGAGGAGAACTCTGGAGTTACAACCGTCTTACCAGTATTACCCCAACTTCTCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR209824 representing NM\_017174  
**Red=Cloning site Green=Tags(s)**

MKRLTLAWFLACSVPVPGLLLELKSMIEKVTGKNAVKNYGFYGCYCGWGGHGTGPKDGTDWCCRMHDCR  
YGLLEEKHCARTQSYDYRFTQDLVICEHDSFCPVRLCACDRKLVYCLRRNLWSYNRLYQYPNFLC

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2085\\_a07.zip](https://cdn.origene.com/chromatograms/ja2085_a07.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_017174

**ORF Size:** 411 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

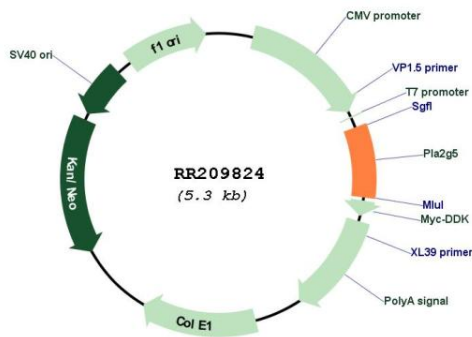
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_017174.1, NP\\_058870.1](#)  
 RefSeq Size: 1803 bp  
 RefSeq ORF: 414 bp  
 Locus ID: 29354  
 UniProt ID: [P51433](#)  
 Cytogenetics: 5q36  
 MW: 16.4 kDa  
 Gene Summary: catalyzes calcium ion dependent hydrolysis of phospholipids [RGD, Feb 2006]

**Product images:**



Circular map for RR209824