

Product datasheet for **MR221639**

Pla2g5 (NM_011110) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g5 (NM_011110) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pla2g5
Synonyms: PLA2; sPLA2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221639 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAGGGTCTCCTCACACTGGCTTGGTTCCTGGCTTGCAGTGTGCCTGCAGTCCCAGGGGGCTTGCTAG
AACTCAAGTCCATGATTGAGAAGGTGACCAGGAAGAATGCCTTTAAGAACTATGGCTTCTACGGCTGCTA
CTGTGGCTGGGGCGTTCGCGGGACACCAAGGATGGCACTGATTGGTGTGTGAGATGCACGACCGTTGT
TATGGCAACTGGAGGAAAAAGACTGTGCCATTCGGACCCAGTCCATGACTACAGATACACAAATGGCC
TAGTCATCTGCGAACACGACTCCTTCTGTCCAATGAGGCTCTGTGCCTGTGACCGGAAGCTGGTCTACTG
CCTGCGGAGAACTCTGGACTTACAACCTCTTACCAGTATTACCCCACTTCTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221639 protein sequence
Red=Cloning site Green=Tags(s)

MKGLLTLAWFLACSVPAVPGLLLELKSMEIKVTRKNAFKNYGFYGCYCGWGRGTPKDGTDWCCQMHDRC
YQLEEKDCAIRTQSYDYRYTNGLVICEHDSFCPMRLCACDRKLVYCLRRNLWYNYPLYYPNFLC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_011110

ORF Size: 414 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 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_011110.4](#), [NP_035240.3](#)

RefSeq Size: 1982 bp

RefSeq ORF: 414 bp

Locus ID: 18784

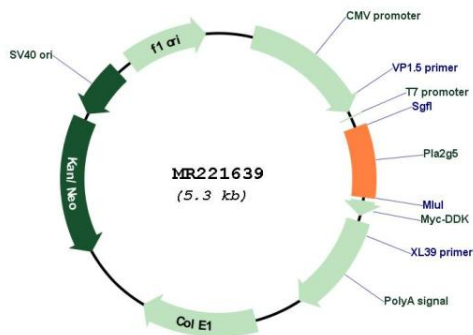
UniProt ID: [P97391](#)

Cytogenetics: 4 70.57 cM

MW: 16 kDa

Gene Summary: PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. This isozyme hydrolyzes L-alpha-palmitoyl-2-oleoyl phosphatidylcholine more efficiently than L-alpha-1-palmitoyl-2-arachidonyl phosphatidylcholine, L-alpha-1-palmitoyl-2-arachidonyl phosphatidylethanolamine or L-alpha-1-stearoyl-2-arachidonyl phosphatidylinositol (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221639