

Product datasheet for **RN211265**

Pla2g2a (NM_031598) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g2a (NM_031598) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Pla2g2a
Synonyms:	sPLA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN211265 representing NM_031598 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGTCTCCTGTTGCTAGCAGTTGTGATCATGGCCTTTGGCTCAATTCAGGTCCAGGGGAGCCTTC
TGGAGTTTGGCAAATGATTCTGTTTAAGACAGGAAAGAGAGCTGATGTTAGCTATGGCTTCTACGGTTG
CCATTGTGGTGTGGTGGCAGAGGATCCCCAAGGATGCCACAGATTGGTGTGTGACTCATGACTGT
TGTTACAACCGTCTGGAGAAACGTGGATGTGGCACAAGTTTCTGACCTACAAGTTCTCCTACCGAGGGG
GCCAAATCTCCTGCTCTACAACCAGGACTCCTGCCGAAACAGCTGTGCCAGTGGGATAAAGCTGCCGC
TGAATGTTTTGCCGGAACAAGAAAAGTACAGTTTAAAGTACCAGTTCTACCCAACAAGTTTTGCAAA
GGGAAGACGCCAGTTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja2057_b08.zip
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_031598
Insert Size:	441 bp



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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](#)

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_031598.3](#), [NP_113786.3](#)

RefSeq Size: 783 bp

RefSeq ORF: 441 bp

Locus ID: 29692

UniProt ID: [P14423](#)

Cytogenetics: 5q36

Gene Summary: hydrolyzes acyl group at the sn-2 position of phospholipids, forming non-esterified fatty acids and lysophospholipids; plays a critical role in inflammation; induces proliferation of smooth muscle cells [RGD, Feb 2006]