

Product datasheet for **MC209755**

Pla2g2f (NM_012045) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pla2g2f (NM_012045) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pla2g2f
Synonyms: GIIFsPLA2; sPLA2-IIF
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC209755 representing NM_012045
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGATGGGGCACAGGCCAACCCAAAGGGTTCAGGAAGAAGGCGCTGGTTAAACACTCCACTGGAC
GGAAGAGCCCAAGCCTCAGGGCCTCTCCCTCTAAAACCTCCAGGTCCAGCCTGGGTATGAAGAAATCTT
TGCCATCGCAGTCTGGCCGGCAGTGTGGTAACCACGGCCACAGCAGCCTGCTGAACCTGAAGTCCATG
GTGGAGGCCATCACACAGAACTCCATCCTGTCTTTGTGGGTACGGCTGCTACTGCGGGCTGGGGG
GACGCGGCCATCCCATGGATGAGGTAGACTGGTGTGCCATGCCACGACTGTTGCTATGAGAAGCTCTT
TGAGCAGGGCTGCCGCCCTACGTGGACCACTATGACCACAGGATCGAGAATGGCACCATGATTGTCTGC
ACTGAGCTCAATGAGACGGAGTGTGACAAGCAGACATGCGAGTGTGACAAGAGCCTGACTCTGTGCCTCA
AGGATCACCCATACAGGAACAAGTACCGAGGCTACTTCAACGTCTACTGCCAGGGCCCCACCCAACTG
CAGCATCTATGACCCGTACCCAGAGGAAGTCACCTGTGGGCATGGCTCCCTGCGACCCCTGTCTCAACC
TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_012045
Insert Size: 633 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_012045.4</u> , <u>NP_036175.2</u>
RefSeq Size:	2437 bp
RefSeq ORF:	633 bp
Locus ID:	26971
UniProt ID:	<u>Q9QZT4</u>
Cytogenetics:	4 D3
Gene Summary:	<p>May play a role in lipid mediator production in inflammatory conditions, by providing arachidonic acid to downstream cyclooxygenases and lipoxygenases. Phospholipase A2, which catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides (PubMed:10531313). Hydrolyzes phosphatidylethanolamine more efficiently than phosphatidylcholine, with only a modest preference for arachidonic acid versus linoelic acid at the sn-2 position. Comparable activity toward 1-palmitoyl-2-oleoyl-phosphatidylserine vesicles to that toward 1-palmitoyl-2-oleoyl-phosphatidylglycerol (PubMed:11877435). Prefers phosphatidylglycerol compared to phosphatidylcholine (PubMed:10531313).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes a longer protein (isoform 1), which lacks a signal peptide. With the available data, it is not clear which start codon is most likely used.</p>