

Product datasheet for **MC200328**

Pla2g4a (NM_008869) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4a (NM_008869) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pla2g4a
Synonyms:	cP; cPL; cPLA2; cPLA2-alpha; cPLA2alpha; Pla; Pla2g4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003816 sequence for NM_008869
 GAAGACTTTCTAGAAGTCGGAAGTGTGAAGGGCTCCCGACTGAGAGCCAGAAGGCACAGAGAAGCCTGAG
 GATTCTCATTTAACTCTGGGAAGTCTTCAAGAAGCTACAGTACCATAGAAGACCTGGGAAGTGTGAGAA
 TTTCTGCAACTGGGACCAAAATGTCTTTCATAGATCCTTATCAGCACATTATAGTGGAACACCACTACTC
 CCATAAGTTTACTGTTGTGGTTCTACGTGCCACCAAAGTAACCAAGGGGACCTTTGGCGATATGCTGGAC
 ACTCCAGATCCTTATGTGGAACCTTTTCTCTACAACCCCTGACAGCAGGAAGCGAACGAGACACTTCA
 ATAATGATATAAACCCCGTGTGGAATGAGACCTTTGAGTTCATTTTGGATCCTAATCAGGAAAAATGTTTT
 GGAGATCACACTGATGGATGCCAACTACGTCTGATGAAACCCTAGGCACAGCTACATTCCCTGTATCT
 TCAATGAAAGTGGGAGAGAAGAAAGAGTCCCTTTTATTTTCAACCAAGTCACTGAAATGATTCTGGAAA
 TGTCTCTGGAAGTTTGTTCATGCCAGACCTACGGTTCAGCATGGCACTGTGTGATCAGGAGAAAACTTT
 CAGACAGCAGAGGAAAGAGAACAATAAAGAGAACAATGAAGAACTTTTGGGTCCAAAAAAGAGTGAGGGG
 CTTTATCCACACGTGATGTGCCGGTGGTGGCCATTTTGGGTTCCAGGTGGGGGTTTCCGGGCCATGGTGG
 GATTCTCTGGTGTGATGAAGGCACTGTATGAGTCGGGGATTTTGGACTGTGCTACATACATTGCTGGTCT
 TTCTGGATCCACATGGTACATGTCAACCTGTACTCTCACCCGATTTTCCAGAGAAAGTCCCGAGGAG
 ATTAATGAAGAGCTAATGAAAAATGTCAGCCACAACCCTCTTACTTCTTACACCACAGAAAGTAAAA
 GATACGTTGAGTCTTTATGGAAGAAGAAAAATTTCTGGCCAGCCTGTCACCTTTACTGACATCTTTGGGAT
 GCTAATAGGAGAAACACTAATTCAAAATAGGATGAGCATGACCCTGAGTAGTGTGAAAGGAAAAGGTCAAT
 GCCGCCGGTGTCTTTGCCTCTCTTCCAGTGTCTCCAGTCAAACCTGATGTGTGAGAGCTGATGTTTTG
 CCGATTGGGTGGAATTTAGTCCATATGAGATTGGCATGGCAAAATATGGTACCTTTATGGCTCCTGACCT
 ATTTGGAAGCAAGTTTTTATGGGAACAGTTGTAAAAAATATGAAGAAAACCCCTTGCATTTCTTGATG
 GGTGTCTGGGCGAGTGCCTTTTCTATACTGTTCAACAGAGTTTGGGAGTTTCTGGCTCACAGAATAAAG
 GCTCTACAATGGAAGAGGAATTAGAAAAATTACAGCAAAGCACATCGTGAGTAATGACAGCTCCGACAG
 TGATGATGAGGCTCAAGGACCCAAAGGCCAGAGAAATGAAGAAGCTGAAAAAGAGTACCAAAGCGACAAC
 CAAGCAAGTTGGGTCCATCGGATGCTAATGGCCTTGGTGGAGCGACTCGGCTTTATTCAATACCCGAAAG
 GACGTGCCGAAAAGGTGCATAAATTCATGCTGGGCTTGAATCTCAACACATCATATCCACTGTCTCCCT
 GAGAGACTTCAGCTCTCAGGATTCCTTCGATGACGAGCTCGACGCGAGCGGTAGCAGATCCAGATGAATTT
 GAACGAATATATGAACCACTGGATGTCAAAAGTAAAGAAGTTCATGTGGTAGATAGTGGGCTCACATTTA
 ACCTGCCGTATCCCTTGATTCTGCGACCTCAGAGAGGTGGATCTTATCATCTCCTTTGACTTTTCTGC
 AAGGCCGAGTGACACCAGTCCCCCTTCAAGGAACTTCTGCTTGCAGAGAAGTGGCGAAAATGAACAAG
 CTTCCCTTTCAAAGATCGATCCTTATGTGTTGATCGGGAAGGATTAAGGAATGCTATGTTTTAAAC
 CTAAGAATCCTGATGTGGAGAAGGATTGCCAACCATTATCCACTTTGTTCTGGCCAACATCAACTTCAG
 AAAGTACAAGGCCCCAGGTGTTCTAAGGAAAACCAAGAAGAGAAAGAAATCGCTGACTTTGACATTTTT
 GATGACCCCGAATCGCCATTTTCAACCTTCAACTTTCAGTATCCCAATCAAGCATTCAAAAGGCTGCATG
 ATCTGATGTACTTCAACACACTGAACAACATTGATGTGATAAAGGATGCCATTGTTGAGAGCATTGAATA
 CAGAAGACAGAACCCATCTCGTTGCTCTGTTCCCTCAGTAATGTTGAAGCAAGAAAAATCTTCAATAAG
 GAGTTTCTAAGTAAACCACTGTGTAATTTCTGTGCTGGGATGATCAAGCCATTTGAATTCATGACAAAT
 TTGAGTTCAGAACACATTAGAGGTCATCTTACTATGCAGAAGAGACTGGCTGCTACTCAGAGTTGTGGAG
 ATTTAGCCATGTGTTAGGTGAAAATGATGTTGATTATGTAATACTTAGCAACAGTTTCTGACAGTATGAA
 TTTTTGACATTAGCATAGAGCTATATACTGATTTTTAAACATTCCTCACATTTTTTACCTGTACTTTTT
 ATATAAATATGACATGTCTTTTCTTTTAAAAATTTAATAGTTTAACTCAGTAAAAGAGACTTCCCAT
 GTGTGTGAATGTTATTCCGAACTAGATTTGTTTCATGCCATGTTACAACACTATTTTTATTTAAATGTTTA
 TATTTACACATACGAAATAAATACTTTGCTGTACAAATTACCACTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008869
Insert Size: 2247 bp

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:	BC003816 , AAH03816
RefSeq Size:	2861 bp
RefSeq ORF:	2247 bp
Locus ID:	18783
UniProt ID:	P47713
Cytogenetics:	1 63.51 cM
Gene Summary:	<p>The protein encoded by this gene is a member of the phospholipase A2 group IV family. This enzyme hydrolyzes membrane phospholipids, thereby releasing the polyunsaturated fatty acid, arachidonic acid. Arachidonic acid is further metabolized into eicosanoids such as leukotrienes, thromboxanes and prostaglandins, that play important roles in regulating diverse biological processes such as inflammatory responses, membrane and actin dynamics, and tumorigenesis. A rise in intracellular calcium levels results in binding of calcium to the C2 domain of this protein, and triggers the translocation from the cytosol to intracellular membranes, including the Golgi apparatus. Disruption of this gene in mice led to decreased levels of eicosanoids and platelet-activating factor, decreased allergic symptoms, and impaired reproductive ability in females. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>