

## Product datasheet for **MR220078**

### Pla2g4d (NM\_001024137) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pla2g4d (NM_001024137) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pla2g4d
Synonyms:	2610311B01Rik; cPLA2delta; Pla2delta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR220078 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTGGAGTGGAGATAGAAGAGTAGGCATGGAGAGCCTGTCAACCGAGAGACTACATGGCCATCCTTACC  
AGGAGGAGGCCTCTGTCTTCTGCCGGCTCACTGTGAAAATCCTGGAGGCTCGGAGTCTGCCAGGGCTGA  
CCTGTTGAGTCAGGCAGATCCCTATGTGACTGTGCAGCTGCCAACAGTTCTGGAATGAAATTCAGACC  
CAAACAGTCACTAACTCCAGTCATCCTGTGTGGAACGAGACCTTCAGTTTCCTCATCCAGAGTCAGGTCA  
AGAACATTCTAGAACTAACTATCTATGACGAAGACGTAATTACGAAAGATGACATCTGTTCAAGGTTTC  
TTATGATGTCTCAGAAATCCTTCTGGACAGCTGCTCCAGAAAACCTTCAGCCTGAATCCTCAGGGACCA  
GAAGAGTTAGATGTGGAGCTCCTAATGGAAGAACGTGGGACCTCCAGAAAACCTCATCACCACAATG  
TTCTTGTGGCCCGAGAAGTGTACACCTGGATGTCTCCCTGGACAGAGCCGGGAACACCGCCATGGCAGC  
AGGCCAGGACAACTAGAGCTGGAGCTTATGCTGAAGGGTTCATATGAGGACACACAGACATTTTCTG  
GACACAGCTTTTACCTTCAGTTCCACTACATGAGGGGCCAAGACACAGAAGTGAATGGGTACCTGAGGG  
GCCCCAGAAACAGTGGCTGGAACCTCAGATACCTCGGTGACACCTTCAATGTACCCTGATGTGCTTGGC  
CGCAGGGAAGGAGATGACCATAGACATTCTGCTATGAAGGCTCCAGAAGGGAAGCTGCAGCTTAAGACA  
GACTGTTGCCCAAAGAGCTGTCTGTGAGGCTGAGCTATGGGCTCTGTCCCGAGGAGCAGGCCTTCTAA  
GCAGGAGGAAGAAGTGGTGGCTGCCGCCCTGAAGCAGGCTCTGCAACTGGATGAAGACTGAACGAAGA  
TGAGGTCCTGTGTGGGCATCAATGCTGAGGGAGGAGGTATGCGGGCTATGATCTCACTCTACGGCCAC  
CTACTGGCGCTTCAGAAGTTGGCCCTCCTGGACTGTGTGACCTACTTCAGTGGCATCTCAGGCTCTACAT  
GGACAATGGCCACCTGTACAGGGACCCAGAGTGGTACAGAGGGACCTCGAAGGACCCCATCAGTCTGC  
TAGGGAGCATGTGGCTAAAACCTGCTGAAGGAATTCCTCCCGAACACTTGGCAAGCTACCGCCAGACA  
CTGAAGCTTCGGGAAGAGCAGGGCTACACCGTACCGGTAGCAGACCTGTGGGGCTGGTGTGGAGTCCA  
AGCTGCATGGGCAGGTGACAGATCAGAAGCTGTCAGGACAGAGAGCTGCACTGGAGAGGGGTGAGAACCC  
TTTGCCTCTACTTGGCCTCAATGTCAAAGAGAACCCTGGAACCCCTCCACTTCAAGGAATGGGTA  
GAGTTCTCTCCCTATGAAGTTGGGTTTCTGAAATATGGAGGCTTGTCCCTTCTGAGCTCTCGGCTCTG  
AGTTCTTCATGGGACGGCTGATGAAGAGACTTCCCGAGTCCAGATTTGCTTTCTGGAAGGTATCTGGAG  
CAACCTTTTCTGTGAACCTGATGGATATCTGGTATGACATCACCTATGGGAAAGACTCAAACAATTTT  
CCTGTGGATGTCCGGAACCTCAGAGAAGGAGTTCTCAGGTTTCAGCAGGAACCTCCTCTGGTGTGGAGGCC  
CATGGCTGGAGTCTGGAACAGCTCTGGCCAGGCACTTAAGGGCTTTCTGACTGGCAGGCCATTCCACCA  
GCGTAGCGCAACTTCTCCATGGCCTCCAGCTGCACCGGACTACTGTAACCAGAGACACTTCTCCACC  
TGGGCGGATTGCAACCTAGATGACACCCGAATCAGCTGACCCACAGGACCCCTCAGCTCTGCCTAATTG  
ATGCTGGCTGTTTATGAACAGCAGCTGTCCCTCCCTGTTCCGCCAGGTCGCCAAGTGGACCTCATAAT  
CTCCTTCAATTACAACCAATCCCTTCCCTTAAAGGGGCTGCAGCAATCTGAGAAAACAGCAGAGCTCGG  
GGCCTGCCCTTCCCCGTGTGGAGCCAGCCAGAGGACCACAGCCAGCCCAAGGATGTTACCTCTTCT  
CAGACCCACCTGCCCGAAGCACCCGTTGTGCTGCACTTCCCGCTGGTCAATGACTCCTCAGGGATCA  
CTCAGCCCCTGGTGTGAGGCGCAGCCCTGATGAGCTCAAGGCTGGCAGGTGAATCTCAGAGGGCTGCC  
TCCCCCTACTTATGTACAACATGACCTACAAGAACGAAGATTTGACCGGTTGCTTCACTCTCTGACT  
ACAATGTTCAGAACAACAGGGCACTATCCTGCAGGCCCTGAGGACAGTTCTGAAACGGAGGGCTTCA  
GACCAGGCCATTGGGAGTGAAGACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR220078 protein sequence

Red=Cloning site Green=Tags(s)

MWSGDRRVGMESLSPERLHGHPYQEEASVFCRLTVKILEARSLPRADLLSQADPYVTVQLPTASGMKFKT  
QTVTNSHPVWNETFSFLIQSQVKNILELTIYDEDVITKDDICFKVSYDVSEILPGQLLQKTFSLNPQGP  
EELDVPELLMERTWDPENLITNNVLVARELSHLVSLDRAGNTAMAAGQDKLELEMLKGSYEDTQTFLL  
DTAFTFSFHYMRGQDTELNGYLGRPRNSGWNSTSVTPFNVPLMSLAAGKEMTIDIPAMKAPEGKQLKLT  
DCCPKELSVRLSYGLCPEEQAFLSRRKKVVAALKQALQLDEDLNEDEVVVGINAEGGMRAMISLYGH  
LLALQKLGLLDCVTFSGISGSTWTMAHLYRDPEWSQRDLEGPISHAREHVAKTLLKEFLPEHLASYRQT  
LKLREEQGYTVTVADLWGLVLESKLGQVTDQKLSGQRAALERGQNPLPLYLSLVNKENHLETLHFKEWV  
EFSPYEVGFLKYGGFVPSSEFGSEFFMGRLMKRLPESQICFLEGIWSNLFVNLMDIWDITYGKDSNNF  
PVDVRNSEKEFSGSAGTSSGVEAPWLESGTALAQALKGFLTGRPFHQRSANFLHGLQLHRDYCNQRHFST  
WADCNLDTPNQLTPQDPQLCLIDAGCFMNSSCPSLFRPGRQVDLII SFNYNQSLPFKGLQQSEKYSRAR  
GLPFPVPEPSPEDHSQPQECYLFSDPTCPEAPVVLHFPLVNSFRDHSAPGVRRSPDELKAGQVNLTGAA  
SPYFMYNMTYKNEDFDRLQLSDYNVQNNQGTILQALRTVLKRRASETRPLGVKT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI



**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\\_001024137.1](#), [NP\\_001019308.1](#)

**RefSeq Size:** 3311 bp

**RefSeq ORF:** 2478 bp

**Locus ID:** 78390

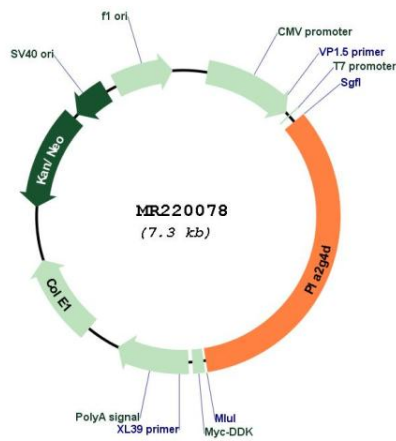
**UniProt ID:** [Q50L43](#)

**Cytogenetics:** 2 E5

**MW:** 93.1 kDa

**Gene Summary:** Calcium-dependent phospholipase A2 that selectively hydrolyzes glycerophospholipids in the sn-2 position (PubMed:15866882). Compared to its human ortholog, may have no preference for the fatty acid found at the sn-2 position (PubMed:15866882).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR220078