

## Product datasheet for **MC223084**

### **Pnpla6 (BC054789) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pnpla6 (BC054789) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Pnpla6  
**Synonyms:** A1661849; MSws; Nte  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >BC054789  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCCCACTGCAAACCGAATGGTGTGGCGTGATGATCGGGCCGGAGTGGCGGTGCTGGTCA  
 CCGCGTGTCTATCCTCTTGGTGGTGCAGAGGCTGCGGGTGCAGAAAACCCAGCCCCGAGGGTCCCCG  
 GTATCGGTTCCGGAAGCGGGACAAGTGTCTTTCTATGGCCGGAAGATTATGCGGAAGGTGCACAGTCC  
 ACTTCTCCCTGGTGGACACATCAGTCTCCACCACTTCCCGCCCCGCATGAAGAAGAACTGAAGATGC  
 TTAACATTGCCAAGAAGATCTTACGTATCCAAAAGGAGACTCCGACCCTACAACGGAAGGAGCCCCACC  
 TTCAGTGTGGAGGCTGACCTCACAGAGGGAGACCTGGCCAATCCACCTACCTCTGAGGTACTCTAC  
 ATGCTTAAGAAATGTTCCGGTGTAGGTCACCTTTGAGAAGCCGCTCTTCTGGAGCTCTGCCGGCAGATGG  
 TCTTCCAGCGTCTCGGGCAGGGGACTATGTTTTTCGGCCGGTCAACCAGATGCCAGCATCTATGTGGT  
 TCAAGATGGGCTGCTGGAGCTCTGCCTACCAGGGCCTGATGGGAAGGAGTGTGTGGTGAAGGAGGTGGT  
 CCTGGAGACAGCGTCAACAGCCTTCTGAGCATCCTTGATGTATCACGGGTCAACCAGATCCCCAGCGGA  
 CTGTGTCAGCCAGGGCTGCACGGGACTCCACAGTGTGAGACTCCAGTAGAAGCCTTCTCTGCTGTCTT  
 CACCAAGTACCCTGAGAGTTTGGTGCAGTGGTACAGATCATCATGGTAAGGCTGCAGAGAGTCACTTC  
 CTGGCGCTTACAAATTACCTGGGTCTGACCAATGAACTCTTCAAGTATGAGATCCAGCCCCACGCCCTT  
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 TACTGAGGACACCTCAAAGGAGACCTCTGGCCGGCCCCTGGACTCCATTGGAGCTCTCTGCCTGGACCT  
 GCAGGGGATCCCGTGAAGCCACATCCTTAGAAGCACCCAGCCCCGTTACTGAGCCGCTGCATCTCCA  
 TGCCAGTAGACATCTCAGGCTTGAAGGTGCCCTCGTTCTGATTTTGACATGGCCTATGAACGTGGACG  
 GATATCTGTTTCTTCAAGAAGAGGCATCTGGGGACCTCAGACAGCATCCCCTAGGGAGCTCCGGGAG  
 CAGCCAGCGGGTGCCTGTGAATATAGCTACTGTGAGGATGAGTCAGCCACAGGCGGATGTCCCTTTGGGC  
 CCTACCAGGGCCCGCAGACAAGCAGCATCTTTGAGGCTGCAAAGAGAGAGCTAGCCAAGCTGATGCGGAT  
 TGAGGACCCCTCTACTGAACAGCAGAGTCTTGCTACATCATGCCAAAGCCGGCACCATCATAGCCCGC  
 CAAGGGGACCAGGATGTGAGCCTGCACTTTGTGCTCTGGGGTGCCTGCACGTGTACCAGCGCATGATTG



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ACAAGGCTGAGGAAGTGTGCCTATTTGTGGCACAGCCAGGGGAGCTGGTGGGGCAACTGGCGGTGCTCAC  
 TGGGGAACCTCTCATCTTACACTACGTGCCAGAGAGACTGCACCTTCCTGCGGATCTCCAAATCCCAC  
 TTCTATGAGATCATGCGTGCACAACCCAGTGTGGTACTGAGTGCAGCTCACACGGTGGTCTAGAAATGT  
 CCCCTTCGTGCGCCAGATGGACTTTGCCATTGACTGGACAGCTGTGGAGGCTGGTCTGCGCTCTACAG  
 GCAGGGAGACCGCTCCGACTGCACCTACATTGACTCAATGGACGTCTCCGTAGTGTATCCAACGAGGC  
 AGTGGCAAGAAGGAGCTAGTTGGGGAGTATGGTCGAGGGGATCTCATTGGCGTGGTGGAGGCACTGACCC  
 GGCAGCCACGAGCCACCCTGTACACGCACTGCGAGACACTGAGCTGGCCAAGTTCGCCAGGGCACCTT  
 AGGCCACATCAAACGTCGGTACCCACAGTTGTGACCCGCTTATTCATCTGCTAAGCCAGAAAATTTCTA  
 GGCAATCTGCAGCAGTTGCAAGGACCCTTTCAGGCTCCGGGCTCAGTGTCCGACGACTCGGAACTGA  
 CCAACCCAGCCAGCAATCTGTCTACTGTAGCTATCCTCCCTGTGTGTGCTGAGGTGCCATGATGCCTT  
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 GCACTCCTGGGGCTTCAAGTGCAGTATGCAAGTTCGCAAGTTCGCGCTGTGAGGTTGGTGGCCAGCAGG  
 AAGATGCCATCGCATTGTGCTTACCAAAGTGCACATCCCTGACGCTTGGACCGTCCGTTGTCTGCG  
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 TTAGAGAACACTGCTGTCGCTGCAAGCAACTGGTTTTGCTGCACCCGGAGGAAGGCCCTGGTCCCA  
 CCGCAGCTGTAGAGTGGCTCAACATGCGCAGCTGGTGTGCTCAGGGACCTGCACCTGCGCTGCTCGCCG  
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 CGTACAGCGACTTCTCCGCTTGGCACAGTACTCACAGGAAACTATTGCTCTGGTGTGGTGGGG  
 GCGGAGCCAGAGGCTGCTCGCATATTGGGGTGTGAAGGCATTAGAGGAGGCAGGAGTCCAGTCCGACT  
 TGTGGGAGGCACATCCATAGGTTCTTCAATTGGGGCTTGTATGCCGAGGAACGCAGCGCCAGCCGA  
 AAACAACGAGCCCGGAGTGGGCAAGAGCATGACTTCTGTACTGGAGCCTGTATTGGACCTCACATATC  
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 TGAGGACTGTGGCTGCCTTACTTCAATGTGACCACAGACACTGCTGCTGCTGCTGCTGCTGCTGCTG  
 GATGGCTCCCTGTGGCGGTATGTACGTGCCAGCATGACGCTCTCGGGCTACCTACCCCGCTGTGGGACC  
 CAAAGGATGGGCACCTGCTCATGGATGGTGGCTACATCAACAACCTGCCAGCGGATATTGCCGAAGCAT  
 GGGAGCCAAAACGGTCATTGCCATCGACGTTGGAAGCCAGGATGAGACAGATCTCAGCACCTATGGGGAC  
 AGCCTGTCTGGCTGGTGGTGTGTGGAAGGCTAAACCCCTGGGCAGACAAGGTAAGGTTCCAGACA  
 TGGCTGAGATCCAGTCCCGCTTGGCGTACGTGTCTGTGTGCGGCAGCTAGAAGTCGCAAGTCCAGCTC  
 CTATTGCGAGTACCTTCGTCATCCATTGACTGCTTCAAGACCATGGACTTTGGAAGTTTGACCAGATC  
 TATGATGTGGTTACCAGTATGGGAAGGCTGTCTTTGGAGGCTGGACCCGTGGTGAAGTCATTGAGAAAA  
 TGCTCACAGACCCGAGATCTACAGACCTAATGAGAGTGCCTGTCAGATATACTGCTTCCCAAGTTC  
 TGGGTTCACTGACTTGGCTGAGATTGTGTCGCGATCGAGCCACCAACAAGCTACGTCTCTGATGGCTGT  
 GCTGATGGGGAGGAGTCCGATTGCTTGACAGAGTATGAGGAAGATGCAGGACCAGACTGCTCAAGAGATG  
 AAGGGGCTCCCTGAGGGTCCAGCCCTAGCACTGCCTCAGAGGTGGAAGAAGAGAAGTCCACACTCCG  
 GCAACGACGCTTCTGCCTCAGGAGACTCCAGCTCAGTCGCAGATGCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** BC054789
- Insert Size:** 3972 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:**

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:** [BC054789](#), [AAH54789](#)

**RefSeq Size:** 4461 bp

**RefSeq ORF:** 3971 bp

**Locus ID:** 50767

**Cytogenetics:** 8 1.92 cM

**Gene Summary:** Phospholipase B that deacylates intracellular phosphatidylcholine (PtdCho), generating glycerophosphocholine (GroPtdCho). This deacylation occurs at both sn-2 and sn-1 positions of PtdCho. Its specific chemical modification by certain organophosphorus (OP) compounds leads to distal axonopathy.[UniProtKB/Swiss-Prot Function]