

## Product datasheet for **MC203301**

### **Pld4 (NM\_178911) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pld4 (NM_178911) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pld4
Synonyms:	A132321; thss
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC058565  
 GGCAGGTGCCTGCCTGCACAGGCAAAGCCTGCAGACAGTGGCTGGAACCAGGATGGACAAGAAGAAAGAG  
 CACCCAGAGATGCGGATACCACTCCAGACAGCAGTGGAGGTCTCTGATTGGCCCTGCTCCACATCTCATG  
 ATCCACATAGCGGACTTGGCATGGTACTGGGGATGCTAGCTGTACTGGGACTCAGCTCTGTGACTCTCAT  
 CTTGTTCTGTGGCAAGGGGCCACTTCTTTCACCAGTCATCGGATGTTCCCTGAGGAAGTGCCCTCCTGG  
 TCCTGGGAGACCCTGAAAGGAGACGCTGAGCAGCAGAATAACTCCTGTCAGCTCATCCTTGTGAAAAGCA  
 TCCCGAGGACTTGCCATTTGCAGCTGGCAGCCCACTGCCAGCCCTGGCCAGGCTTGGCTGCAGCT  
 TCTTGACACTGCTCGGGAGAGCGTCCACATTGCCCTCGTACTACTGGTCCCTCACTGGACTGGACATTGGA  
 GTCAATGACTCGTCTTCTCGGCAGGGAGAGGCCCTTCTACAGAAGTTCCAACAGCTTCTTCTCAGGAACA  
 TCTCTGTGGTGGTGGCCACCCACAGCCCAACATTGGCCAAGACATCCACTGACCTCCAGGTCTTGGCTGC  
 CCATGGTGCCAGATACGACAAGTGCCCATGAAACAGCTTACTGGGGGTGTTCTACACTCCAAATTCTGG  
 GTTGTGGATGGGCGACACGTCTACGTGGGAGCGCAACATGGACTGGCGGTCCCTGACTCAGGTGAAGG  
 AACTTGGTGAATCATCTACAACGCAGCAACCTGGCTCAAGACCTTGAGAAAACATTCCAGACCTACTG  
 GGTGCTAGGGACTCCCAAGCTGTTCTCCCTAAAACCTGGCCTCGGAATTCTCATCCACATCAACCGC  
 TTCCATCCCTTGGGGGTCCCTTTGATGGGGTCCCACACGGCCTATTTCTCGGCTCCCTCCCTCCC  
 TCTGCCCGCATGGCCGGACCCGGGATCTGGACGAGTGTGGGAGTGATGGAGGGTCTCGCCAGTTCAT  
 CTATGTCTCGGTGATGGAGTATTTCCCTACCACGCGCTTACCCACCATGCCAGGTACTGGCCCGTGTCTG  
 GACAATGCGCTACGGGACGCGGCCCTCAATAAGGGTGTGCATGTGCGCTTACTGGTCAGCTGCTGGTTCA  
 ACACAGACCCACCATGTTTCGCTTATCTGAGGTCCCTGCAGGCTTTCAGTAACCCCTCGGCTGGCATCTC  
 AGTGGATGTGAAAGTCTTCATCGTGCCTGTGGGAAATCATTCCAACATCCCGTTCAGCCGCGTGAACCAC  
 AGCAAGTTCATGGTCACAGACAAGACAGCCTATGTAGGCACCTCTAACTGGTCAGAAGACTACTTCAGCC  
 ACACCGCTGGTGTGGGCTGATTGTGAGCCAGAAGACCCAGAGCCAGCCAGGCGCAACCACCGTGCA  
 GGAGCAGCTGAGGCAACTCTTTGAACGAGACTGGAGTCCCCTATGCTATGGACCTAGACAGACAAGT  
 CCGAGCCAGGACTGTGTCTGGTAGGGCTGAGGGTTGATCCCTTTGACTCTGGCCTACAGCTCTAGGTGAA  
 CACTGATGCTCCCAAGACTTCCATCTGCCCAAGCTCAGAAACCAAGCAAGCAAGGATCACCAGTGGG  
 CCCGAGATTGTATCAGACAAACAGCTTCCGGCAGAGCTCTCAACGGCTTTTAAACGAAGAAGAGGCTAA  
 AGCAGAGGAAGGCACCACGGTGACATGGGAAGACAGCAACTACATATAAGTGACCCCAAGAACCTCCCT  
 GGTCTACCTATGATGAGTTGCTAGGGCATTCCCAGATGTAATGTTGGTGTGTCCAGCCACAATAAAAC  
 CCTGCCACCAGCTACTGACCTGACCCAGGTCAAAAGTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_178911

**Insert Size:** 1512 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: [BC058565](#), [AAH58565](#)

RefSeq Size: 1989 bp

RefSeq ORF: 1512 bp

Locus ID: 104759

UniProt ID: [Q8BG07](#)

Cytogenetics: 12 F1

**Gene Summary:** 5'->3' DNA exonuclease which digests single-stranded DNA (ssDNA) (PubMed:30111894). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor (PubMed:30111894). Involved in phagocytosis of activated microglia (PubMed:22102906). [UniProtKB/Swiss-Prot Function]