

## Product datasheet for **MG208096**

### **Pld4 (NM\_178911) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pld4 (NM_178911) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pld4
Synonyms:	A132321; thss
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208096 representing NM\_178911  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACAAGAAGAAAGAGCACCCAGAGATGCGGATACCACTCCAGACAGCAGTGGAGGTCTCTGATTGGC  
 CCTGCTCCACATCTCATGATCCACATAGCGGACTTGGCATGGTACTGGGGATGCTAGCTGTACTGGGACT  
 CAGCTCTGTGACTCTCATCTTGTTCCTGTGGCAAGGGGCCACTTCTTTACCAGTCATCGGATGTTCCCT  
 GAGGAAGTGCCCTCCTGGTCTGGGAGACCCTGAAAGGAGACGCTGAGCAGCAGAATAACTCCTGTCAGC  
 TCATCCTTGTGGAAAGCATCCCCGAGGACTTGCCATTTGCAGCTGGCAGCCCCACTGCCAGCCCCCTGGC  
 CCAGGCTTGGCTGCAGCTTCTTGACACTGCTCGGGAGAGCGTCCACATTGCCTCGTACTACTGGTCCCTC  
 ACTGGACTGGACATTGGAGTCAATGACTCGTCTTCTCGGCAGGGAGAGGCCCTTCTACAGAAGTTCCAAC  
 AGCTTCTTCTCAGGAACATCTCTGTGGTGGTGGCCACCCACAGCCCAACATTGGCCAAGACATCCACTGA  
 CCTCCAGTCTTGGCTGCCATGGTGCCAGATACGACAAGTGCCATGAAACAGCTTACTGGGGGTGTT  
 CTACACTCCAATTTCTGGGTTGTGGATGGGCGACAGTCTACGTGGGCAGCGCCAACATGGACTGGCGGT  
 CCCTGACTCAGGTGAAGGAATTGGTGAATCATCTACAACCTGCAGCAACCTGGCTCAAGACCTTGAGAA  
 AACATTCCAGACCTACTGGGTGCTAGGGACTCCCCAAGCTGTTCTCCCTAAAACCTGGCCTCGGAACTTC  
 TCATCCCACATCAACCGCTTCCATCCCTTGGCGGGTCCCTTTGATGGGGTCCCACCACGGCCTATTTCT  
 CGGCCTCCCCTCCCTCCCTGCCCCGATGGCCGACCCGGGATCTGGACGCAGTGTGGGAGTATGGA  
 GGGTGTCTGCCAGTTCATCTATGTCTCGGTGATGGAGTATTTCCCTACCACGCGCTTACCCACCATGCC  
 AGGTACTGGCCCGTGTGGACAATGCGCTACGGGCAGCGGCCCTCAATAAGGGTGTGCATGTGCGCTTAC  
 TGGTCAGCTGTGGTTCAACACAGACCCACCATGTTTCGCTTATCTGAGGTCCCTGCAGGCTTTCAGTAA  
 CCCTCGGCTGGCATCTCAGTGGATGTGAAAGTCTTTCATCGTGCCTGTGGGAAATCATTCCAACATCCCG  
 TTCAGCCGCTGAACCACAGCAAGTTCATGGTACAGACAAGACAGCCTATGTAGCACCTTAACCTGGT  
 CAGAAGACTACTTCAGCCACACCCTGGTGTGGGCCTGATTGTACGCCAGAAGACCCCCAGAGCCCAGCC  
 AGGCGCAACCACCGTGCAGGAGCAGCTGAGGCAACTCTTTGAACGAGACTGGAGTCCCCTATGCTATG  
 GACCTAGACAGACAAGTCCCAGCCAGGACTGTGTCTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208096 representing NM\_178911  
 Red=Cloning site Green=Tags(s)

MDKKKEHPMRIPLQTAVEVSDWPCSTSHDPHSLGMLVGLAVLGLSSVTLILFLWQATSFTSHRMFP  
 EEVPSWSWETLKGDAEQNNSCQLILVESIPEDLPFAAGSPTAQPLAQAWLQLLDTARES VHIASYYWSL  
 TGLDIGVNDSSSRQGEALLQKFQQLLRNISVVVATHSPTLAKTSTDLQVLAHGAQIRQVPMKQLTGGV  
 LHSKFWVVDGRHVYVGSANMDWRS LTQVKELGAIYNCNLAQDLEKTFQTYWVLGTPQAVLPKTPRNF  
 SSHINRFHPLRPFDPVPTTAYFSASPPSLCPHGRTRDLDAVLGVMGARQFIYVSVMEYFPTTRFTHHA  
 RYWPVLNLRRAALNKGVHVRLLVSCWFNDPTMFAYLRSLQAFSNPSAGISVDVKVFI VPGNHSNIP  
 FSRVNHSKFMVTDKTA YVGTSNWSEDFSHTAGVGLIVSQKTPRAQP GATTVQEQLRQLFERDSSHYAM  
 DLDRQVPSQDCVW

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac  
Consensus

EcoR I      BamH I Kpn I      RBS      Sgf I      Asc I

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

Hind III      Nhe I      Rsr II      Mlu I      Not I      Xho I      GFP Tag

CAAGCTTAACTAGCTAGCGGACCG      ACG CGT      ACG CGG      CTC GAG      ATG GAG AGC GAC --- --- ---

T   R   T   R   P   L   E   M   E   S   D   -   -   -

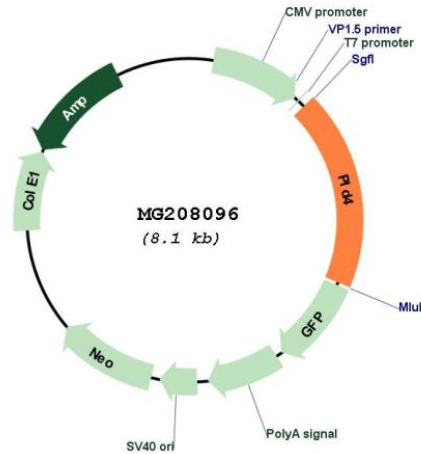
  

Pme I      Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:



ACCN: NM\_178911

ORF Size: 1975 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:** [NM\\_178911.2](#)

**RefSeq Size:** 1981 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]