

Product datasheet for **SC319634**

PLD4 (NM_138790) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLD4 (NM_138790) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLD4
Synonyms:	C14orf175
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_138790.2
 GGAGGTTGGTGTGGAGCACAGGCAGCACCGAGCCTGCCCCGTGAGCTGAGGGCCTGCAGT
 CTGCGGCTGGAATCAGGATAGACACCAAGGCAGGACCCCCAGAGATGCTGAAGCCTCTTT
 GGAAAGCAGCAGTGGCCCCACATGGCCATGCTCCATGCCGCCCCGCCCGCTGGGACA
 GAGAGGCTGGCACGTTGCAGGTCCTGGGAGCGCTGGCTGTGCTGTGGCTGGGCTCCGTGG
 CTCTTATCTGCCTCCTGTGGCAAGTGCCCGTCCTCCCACCTGGGGCCAGGTGCAGCCCA
 AGGACGTGCCAGGTCCCTGGGAGCATGGCTCCAGCCAGCTTGGGAGCCCTGGAAGCAG
 AGGCCAGGCAGCAGAGGACTCCTGCCAGCTTGTCTTGTGAAAAGCATCCCCCAGGACC
 TGCCATCTGCAGCCGGCAGCCCCCTGCCCAGCCTCTGGGCCAGGCCTGGCTGCAGCTGC
 TGGACTGCCCAGGAGAGCGTCCACGTGGCTTCACTACTGGTCCCTCACAGGGCCTG
 ACATCGGGGTCAACGACTCGTCTTCCCAGCTGGGAGAGGCTCTTCTGCAGAAGCTGCAGC
 AGCTGTGGGCAGGAACATTTCCCTGGCTGTGGCCACCAGCAGCCCGACACTGGCCAGGA
 CATCCACCACCTGCAGGTTCTGGCTGCCGAGGTGCCCATGTACGACAGGTGCCATGG
 GCGGCTCACCAGGGTGTTCCTGACTCCAAATCTGGGTTGTGGATGGACGGCACATAT
 ACATGGGCAGTGCCAACATGGACTGGCGTCTCTGACGCAGGTGAAGGAGCTTGGCGCTG
 TCATCTATAACTGCAGCCACCTGGCCAAAGACCTGGAGAAGACCTTCCAGACCTACTGGG
 TACTGGGGGTGCCAAGGCTGTCCTCCCCAAAACCTGGCCTCAGAACTTCTCATCTCACT
 TCAACCGTTTCCAGCCCTTCCACGGCCTCTTTGATGGGGTGGCCACCCTGCCTACTTCT
 CAGCGTCGCCACCAGCACTCTGTCCCCAGGGCCGACCCGGGACCTGGAGGCGTGTGG
 CGGTGATGGGGAGCGCCAGGAGTTCATCTATGCCTCCGTGATGGAGTATTTCCCCACCA
 CGCGCTTACGCCACCCCGAGGTAAGTGGCCGGTGTGGACAACGCGCTGCGGGCGGCGAG
 CCTTCGGCAAGGGCGTGCAGGTCGCGCTGCTGGTCGGCTGCGGACTCAACACGGACCCCA
 CCATGTTCCCTACCTGCGGTCCTGCAGGCGCTCAGCAACCCCGCGCCAAACGTCTCTG
 TGGACGTGAAAGTCTTCATCGTGCCGGTGGGGAACCATTCACAACATCCCATTCAGCAGGG
 TGAACCACAGCAAGTTCATGGTACGGAGAAGGCAGCCTACATAGGCACCTCCAACCTGGT
 CGGAGGATTACTTACGACGACGGCGGGGTGGGCTTGGTGGTACCCAGAGCCCTGGCG
 CGCAGCCCGGGGGGCCACGGTGCAGGAGCAGCTGCGGCAGCTCTTTGAGCGGGACTGGA
 GTTCGCGTACGCCGTGGCCTGGACGGACAGGCTCCGGGCCAGGACTGCGTTTGGCAGG
 GCTGAGGGGGGCTCTTTTCTCTCGGCGACCCCGCCCCGACGCGCCCTCCCCTCTGAC
 CCCGGCTGGGCTTACGCCGCTTCTCCGCAAGCAGCCGGGTCGCGACTGCGCCAGGA
 GCCGCTGCGACCGCCCGGGCGTCGAAACCGCCGCTGCTCTGATTTCCGAGTCCA
 GCCCCCCCTGAGCCCCACCTCCTCCAGGAGCCCTCCAGGAAGCCCTTCCCTGACTCCT
 GGCCACAGGCCAGGCCTAAAAAACTCGTGGCTTCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_138790

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_138790.2](#), [NP_620145.2](#)

RefSeq Size: 1964 bp

RefSeq ORF: 1521 bp

Locus ID: 122618

UniProt ID: [Q96BZ4](#)

Cytogenetics: 14q32.33

Domains: PLDc

Protein Families: Transmembrane

Gene Summary: 5'→3' DNA exonuclease which digests single-stranded DNA (ssDNA). Regulates inflammatory cytokine responses via the degradation of nucleic acids, by reducing the concentration of ssDNA able to stimulate TLR9, a nucleotide-sensing receptor. Involved in phagocytosis of activated microglia.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate splice site in the 5' coding region that results in use of a downstream start codon compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.