

Product datasheet for **SC216440**

PLD6 (NM_178836) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PLD6 (NM_178836) Human 3' UTR Clone
Symbol:	PLD6
Synonyms:	ZUC
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_178836
Insert Size:	1802 bp



[View online »](#)

Insert Sequence: >SC216440 3'UTR clone of NM_178836
The sequence shown below is from the reference sequence of NM_178836. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TGCGGCACCTCCAGCGAAAGCCAAACCTAACCAAGAATGGGGCTGAGCCCTCCCTGCGGGTGCTGTGC
GTTCTGAGGGAGGAGACCTCGGCACTAGAAAAAATCGTTAAACTAAAGTCTCGTCTATTAGAATACT
AAATTGAACTAAAGAAGTTAGGAAAGGAAATTTCTGTACTTCGGGTGAGTTATTTGGGCCAGACC
TTTTTCTTGCTCCTTTGCCAAAATAACTTCAGTCACGACCTGCCACGGGTGCTTTTCATGAGTGTGGTC
CGTATCTTGTTTGAATCGAACTTCTGCTACAGCACAGAAAAGGCACAGTGCCTTTCCAGGTCGAT
CCCATTCCCTTCCTGATTCTAGAAAAGTCCCTCTGCTTTGGTGATGTGGGCCCTTTCAGCATCTCC
CTGAGATTTTCATCCTCTCTCCATGTGGCAGACTGGGGTTGGTTGGGGCTACAGTCTCCTTGCCCT
CACAGTCTGCCCTGTGAGGGCTCGGTCTCAGAGTAAGGAAAGGAAATGGAAGTCAGGAGGAAGGGAA
GATGTGAGTGTGCGGTGCGGGTGCAAAAGCAGCCTTCGGGGCAACCCCGTGAGCGTCATTGCCACCAA
AGGCTGGCTGTTCCCTTGATTCTTGCTAATTGCTCTTTAAACCATGATGCACGCCAGTGCCAAGCT
CTTCAGCAGCCTGCTCTTGGGTAGTAAGTGTGTGGTCTGTGAGGACTGATGGCCAGCAGCTGTTCTA
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GTGATCCACCACTTCCGCTCCCAAAGTCTGGGATTACAGGTGTGAGCCGCCATGCCCGCCGGGCTT
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GGAAGAGGAGAGCAGCTTCAGGCCGTGGTGTCTCCACGTCTGTGTTCTTATTTGCAGCTCAGGGTTTG
CATTCCAGGTAGAACAGGTGTCGTACACTGTGAAATGTTCCAGGTTATTTGTTTATAATGTGTGTGTC
ATATACAGATAGCTCCGATGACATCTGAAGTTGTGACTTCATCATCTTGTGATATTTCTGTATGATGAG
CCCCAGGGCCCATCTGAGGTCTGCTAGCCATGTGCTTAGTCTCACCTCCCAGCCACGCTGGCATTAA
CCACCCAGAGACCCTTCAGTGTGTGTGTTTTCTTTTTAGGGTACTTTTGACTCACAGTGTAGGC
AAGCCAGCTTGAAGTTAACTTTTAAAAAATTCAATTGAAGCTGTAAAGTATAATATATAGATTGGAA
GTCACCAGAAATGTTTTAGTTTGTGAATTCCCCCAGTGTATGTTCTGAAAAGAAAATGGGAGAGCTTG
TAAAGCATCTCCTAAATGCGAAGCCGCGTGACCCTGGACTTCTGGCACATCTGAATAACATGTTCTTA
TTCTGGAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_178836.4](#)

Summary:

Endonuclease that plays a critical role in PIWI-interacting RNA (piRNA) biogenesis during spermatogenesis. piRNAs provide essential protection against the activity of mobile genetic elements (By similarity). piRNA-mediated transposon silencing is thus critical for maintaining genome stability, in particular in germline cells when transposons are mobilized as a consequence of wide-spread genomic demethylation (By similarity). Has been proposed to act as a cardiolipin hydrolase to generate phosphatidic acid at mitochondrial surface (By similarity). Although it cannot be excluded that it can act as a phospholipase in some circumstances, it should be noted that cardiolipin hydrolase activity is either undetectable in vitro, or very low (PubMed:21397848). In addition, cardiolipin is almost exclusively found on the inner mitochondrial membrane, while PLD6 localizes to the outer mitochondrial membrane, facing the cytosol (PubMed:21397848). Has been shown to be a backbone-non-specific, single strand-specific nuclease, cleaving either RNA or DNA substrates with similar affinity. Produces 5' phosphate and 3' hydroxyl termini, suggesting it could directly participate in the processing of primary piRNA transcripts (By similarity). Also acts as a regulator of mitochondrial shape through facilitating mitochondrial fusion (PubMed:17028579, PubMed:26711011).[UniProtKB/Swiss-Prot Function]

Locus ID:

201164

MW:

68.2