

## Product datasheet for **SC317853**

### 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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317853 representing NM\_138790.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

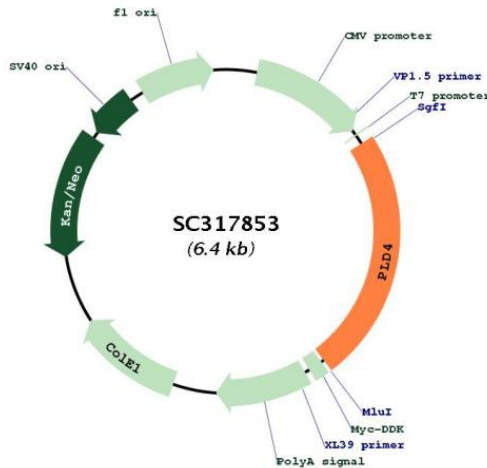
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCTGAAGCCTCTTTGGAAAGCAGCAGTGGCCCCACATGGCCATGCTCCATGCCGCCCGCCGCCCG
TGGGACAGAGAGGCTGGCACGTTGCAGGTCCTGGGAGCGCTGGCTGTGCTGTGGCTGGGCTCCGTGGCT
CTTATCTGCCTCCTGTGGCAAGTGCCCGTCTCCACCTGGGGCCAGGTGCAGCCCAAGGACGTGCC
AGGTCCTGGGAGCATGGCTCCAGCCAGCTTGGGAGCCCTGGAAGCAGAGGCCAGGCAGCAGAGGGAC
TCCTGCCAGTTGTCTTGTGGAAAGCATCCCCAGGACCTGCCATCTGCAGCCGGCAGCCCTCTGCC
CAGCCTCTGGGCCAGGCCTGGCTGCAGTGTGGACTGCCAGGAGAGCGTCCACGTGGCTTCATAC
TACTGGTCCCTCACAGGGCTGACATCGGGTCAACGACTCGTCTTCCAGCTGGGAGAGGCTCTTCTG
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GCCAAGACCTGGAGAAGACCTTCCAGACCTACTGGGTACTGGGGTGCCCAAGGCTGTCTCCCAAAA
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AAGGGCGTGCCTGCGCTGCTGGTGGCTCGGACTCAACACGACCCCACTATGTTCCCTACCTG
CGTCCCTGCAGCGCTCAGCAACCCCGCGCCAACTCTGTGGACGTGAAAGTCTTCATCGTGCCG
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GACTGGAGTTCGCGCTACGCCGTCGGCCTGGACGGACAGGCTCCGGGCCAGGACTGCGTTTGGCAGGGC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:**

SgfI-MluI

**Plasmid Map:**



**ACCN:**

NM\_138790

<b>Insert Size:</b>	1521 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_138790.3</a>
<b>RefSeq Size:</b>	1998 bp
<b>RefSeq ORF:</b>	1521 bp
<b>Locus ID:</b>	122618
<b>UniProt ID:</b>	<a href="#">Q96BZ4</a>
<b>Cytogenetics:</b>	14q32.33
<b>Domains:</b>	PLDc
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	55.6 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>