

## Product datasheet for **MC229196**

### **Pld2 (NM\_001302475) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pld2 (NM_001302475) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pld2
Synonyms:	PLD1C
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC229196 representing NM\_001302475  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTGTAACCCAGAAGAACCTCTTCCCTATGGGGACTATCTGAACTCCAGCCAGTTGCACATGGAGC  
 CAGATGAGGTTGACACTCTGAGGGAAGGAGAGGATCCAGCTGATCGAATGCATCCCTATCTGGCCATCTA  
 TGACCTTCAGCCTCTGAAAGCACACCCCTTGGTGTTCGCCCTGGGGTCCCTGTTATAGCCAGGTGGTG  
 GGCACCGAAAGATACACCAGCGGATCCAAGGTGGGAACCTGACTCTATATTCTGTTTCGCTTGACGCATG  
 GTGACTTTACCTGGACAACCAAGAAGTTCGACACTTTCAGGAGCTGCATCGGGACCTCCAGAGACA  
 CAAAGTCTTGATGAGTCTGCTCCCTTTGGCTCGCTTGTGTGACCCATTCTCCAGCCCGAGAGGCCAGCC  
 GCCGAGGATATACCCTCCCTACCCGAGGAGGTTCTGAGGGCTCTGCCAGACACAGCCAGCAAACAGA  
 AATACTTGAAAATTACCTCAACCGCTCTGACCATGCTTTCTATCGCAATTACCACGCCATGACAGA  
 ATTTCTGGAAGTCAGTCAACTTCTTTATCCCAGACCTTGGCTCCAAAGGACTGGAAGGGGTGATCCGG  
 AAGCGCTCGGGCGGCATCGAGTCCCGCTTACCTTCTGTGGCCGAGACCAAGTTTGTATCGATGGT  
 CCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGCGCCCGAGACCCGGCGCCATCTCATT  
 TGTTACGCTTTTTGACCTGGCTTTGAGGTCCAGGTCCGAAAAAGGAGCACAGAGACCGGTATGGGGTG  
 AGGATCGACACCTCCACAGGTCCTGATTCTCAAATGCAGCAGCTACCGGCAGGCACGGTGGTGGGGCC  
 AGGAGATCACGGAGCTGGCACAGGGTTCGGGCAGAGATTTTCTACAGCTACATCAGCATGACAGCTATGC  
 CCCACCCCGCCCGCACCTGGCCCGTGGTTTGTGAATGGGGCAGGTTACTTTGCTGCTGTGGCAGAT  
 GCCATCTGCGAGCTCAAGAGGAGATTTTATCACAGACTGGTGGTTGAGTCTGAAATTTACCTGAAGC  
 TTCAGCCCATTCGACGACTGGAGACTGGACATTATGCTCAAGAGGAAGCGGGAAGAAGTGTCCGAGT  
 TTCCATACTGCTGTTTAAGGAAGTGGAGCTGGCCTTGGGCATCAACAGTGGCTACAGCAAGAGGACGCTG  
 ATGCTGCTGCATCCCAACATAAAGGTGATGCGACACCCAGACCTTGTGACTGTGGGCTCATCACGAGA  
 AGCTCCTGGTGGTAGACCAAGTGGTGGCATTCTTGGGCGGGCTGGACCTGGCCTTCGCGCCCTGGGATGA  
 CGTGCAATACCGACTGACTGACCTGGGTGACCCCTCTGAACCTGTACATTTACAGACTCCACACTAGGT  
 TCAGACCTGCAGCCACTCCAGACCTCTCGATAACCAATTCTTCTGGCTGGGAAAGGACTACAGCAACC  
 TCATCACCAAGGACTGGGTGCAGCTGGACCGCCTTTTGAAGATTTATCGACAGGGAGACCACACCCAG  
 GATGCCATGGAGGATGTTGGAGTGGTTGTACACGGAGTAGCTGCCAGGGACCTTGCCCGCACTTCATC  
 CAGCGCTGGAATTTACCAAGACCACCAAGGCCAGGTATAAGACACCTTTGTACCCCTACCTGCTGCCCA  
 AGTCCACCAGCACTGAAACAATCTCCCTTCATGATCCAGGCGGGCAGTGTGCCACTGTGCGAGTCTT  
 GAGGTCTGTGGATCGATGGTCAGCAGGGACATTGGAGAATCCATCCTCAATGCCTACCTACATACCATT  
 CGAGAGAGCCAGCACTTCTCTACATTGAGAATCAGTTCTTCAATTAGCTGCTCAGATGGGCGAACAGTTC  
 TGAACAAGGTGGGCGATGAGATTGTGGACAGAATCCTGAAGGCTCACGAACAGGGGCAGTGTTCGGAGT  
 CTACTTGCTTCTGCCTTTGCTCCCTGGCTTTGAGGGGGACATCTCCACAGGGGGTGGTAACCTCCATCCAG  
 GCTATTCTGCACTTACCTACAGCCTCTGCCTCCTTACCCTTTCTTCTCTCAGGACCCTGTGTCTGT  
 GGGAACATTCAATCCTACATCGTCTCAAAGCAGCCATGGGGACTGCGTGGCGAGATTACATGTCCATCTG  
 TGGCTTCGCACCCATGGAGAGCTGGGCGGGCACCCAATCTCTGAGCTCATCTATATCCACAGCAAGATG  
 CTCATTGCGGATGACAGAACAGTCACTATTGGTTCTGCGAACATCAATGACAGGAGCTTGTGGGAAGC  
 GTGACAGTGAGCTAGCCATCCTGATCAAGGACACAGAAATGGAACCATCCCTCATGGATGGGGTGGAGTA  
 CCAGGCAGGCAGATTTGCCTTGAGTTTGCGAAGCACTGTTTCAGTGTGATTCTTGGGGCAAATACCTGG  
 CCAGACCTGGATCTCCGAGACCTGTCTGTGATGACTTCTCCAGCTGTGGCAAGAAACAGCGGAGAACA  
 ATGCCACCATCTATGAGCAGATCTCCGCTGCCTGCCGTCATGCTACCCGTTCCCTGCGGGCTCTCCG  
 GGAGTATGTGGCTGTGGAGTCTTGGCTACAGTCAGCCCTTCTTGGCTCAGTCTGAGCTTGCCACATC  
 CAGGGCCACCTAGTTCACCTCCCTCAAGTTTCTGGAGGACGAGTCTTGTGCCCCACTGGGGAGTA  
 AAGAAGGGATGATACCTTAGAAGTGTGGAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001302475
<b>Insert Size:</b>	2835 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>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001302475.1</a></u> , <u><a href="#">NP_001289404.1</a></u>
<b>RefSeq Size:</b>	3736 bp
<b>RefSeq ORF:</b>	2835 bp
<b>Locus ID:</b>	18806
<b>Cytogenetics:</b>	11 42.99 cM
<b>Gene Summary:</b>	<p>This gene is a member of the phospholipase D (PLD) superfamily. The encoded protein catalyzes the hydrolysis of phosphatidylcholine to phosphatidic acid and choline. Phosphatidic acid is an essential intracellular lipid second messenger for many signaling pathways and has been implicated in a variety of physiological processes including cytoskeletal organization and cell proliferation. A similar gene in human may also function as a guanine nucleotide exchange factor (GEF) for the small GTPase Rac2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>