

Product datasheet for MC227113

Pld2 (NM_001302476) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pld2 (NM_001302476) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pld2
Synonyms:	PLD1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227113 representing NM_001302476 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGACTGTAACCCAGAAGAACCTCTTTCCCTATGGGACTATCTGAACCTCCAGCCAGTTGCACATGGAGC
 CAGATGAGGTTGACACTCTGAGGGAAGGAGAGGATCCAGCTGATCGAATGCATCCCTATCTGGCCATCTA
 TGACCTTCAGCCTCTGAAAGCACACCCCTTGGTGTTCGCCCTGGGGTCCCTGTTATAGCCAGGTGGTG
 GGCACCGAAAGATACACCAGCGGATCCAAGGTGGGAACCTGTACTCTATATTCTGTTTCGCTTGACGCATG
 GTGACTTTACCTGGACAACCAAGAAGAAGTTCCGACACTTTCAGGAGCTGCATCGGGACCTCCAGAGACA
 CAAAGTCTTGATGAGTCTGCTCCCTTTGGCTCGCTTTGCTGTGACCCATTCTCCAGCCCGAGAGGCAGCC
 GCCGAGGATATACCCTCCCTACCCGAGGAGGTTCTGAGGGCTCTGCCAGACACACAGCCAGCAAACAGA
 AATACTTGAAAAATTACCTCAACCGCCTCTGACCATGTCTTTCTATCGCAATTACCACGCCATGACAGA
 ATTTCTGGAAGTCAGTCAACTTTCCTTTATCCCAGACCTTGGCTCCAAAGGACTGGAAGGGTGATCCGG
 AAGCGCTCGGGCGGGCATCGAGTCCCGGCTTCACCTTCTGTGGCCGAGACCAAGTTTGTATCGATGGT
 CCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGCGCCCGAGACCGGCGCCATCTCATT
 TGTTCACTTTTTGACCTGGCTTTGAGGTCCAGTTCGAAAAAGGAGCACAGAGACGCGGTATGGGGTG
 AGGATCGACACCTCCACAGGTCCCTGATTCTCAAATGCAGCAGCTACCGGCAGGCAGGTGGTGGGGCC
 AGGAGATCACGGAGCTGGCACAGGGTTCGGGCAGAGATTTCTACAGCTACATCAGCATGACAGCTATGC
 CCCACCCCGGCCCGCACCTGGCCCGGTGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001302476
Insert Size:	1014 bp
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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001302476.1, NP_001289405.1</u>
RefSeq Size:	3475 bp
RefSeq ORF:	1014 bp
Locus ID:	18806
Cytogenetics:	11 42.99 cM
Gene Summary:	<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 (3) uses an alternate 3' terminal exon which results in an early stop codon, compared to variant 1. The encoded isoform (3) has a shorter C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>