

Product datasheet for **MR229324**

Pld2 (NM_001302476) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pld2 (NM_001302476) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Pld2
Synonyms: PLD1C
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229324 representing NM_001302476
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTGTAACCCAGAAGAACCTCTTTCCCTATGGGACTATCTGAACTCCAGCCAGTTGCACATGGAGC
CAGATGAGTTGACACTCTGAGGAAGGAGAGGATCCAGCTGATCGAATGCATCCCTATCTGGCCATCTA
TGACCTTCAGCCTCTGAAAGCACACCCCTTGGTGTTCGCCCTGGGGTCCCTGTTATAGCCAGGTGGT
GGCACCAGAAAGATACACCAGCGGATCCAAGGTGGGAACCTGTAATCTATATTCTGTTTCGCTTGACGCATG
GTGACTTTACCTGGACAACCAAGAAGAAGTTCCGACACTTTCAGGAGCTGCATCGGGACCTCCAGAGACA
CAAAGTCTTGATGAGTCTGCTCCCTTTGGCTCGCTTTGCTGTGACCCATTCTCCAGCCCGAGAGGCGCC
GCCGAGGATATACCCTCCCTACCCCGAGGAGTTCTGAGGGCTCTGCCAGACACACAGCCAGCAAACAGA
AATACTTGAAAATTACCTCAACCGCCTCCTGACCATGTCTTTCTATCGCAATTACCACGCCATGACAGA
ATTTCTGGAAGTCAGTCAACTTTCCTTTATCCCAGACCTGGCTCCAAAGGACTGGAAGGGGTGATCCGG
AAGCGCTCGGGCGGCATCGAGTCCCGCTTACCTTCTGTGGCCGAGACCAAGTTTGTATCGATGGT
CCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGCGCCCGGAGACCGGCCATCTCATT
TGTTGAGCTTTTGGACCTGGCTTTGAGGTCCAGGTCCGAAAAAGGAGCACAGAGACGCGGTATGGGGTG
AGGATCGACACCTCCACAGGTCCCTGATTCTCAAATGCAGCAGTACCGGCAGGCACGGTGGTGGGGCC
AGGAGATCACGGAGCTGGCACAGGGTTCGGGCAGAGATTTCTACAGCTACATCAGCATGACAGCTATGC
CCACCCCGGCCCGCACCTGGCCCGGTGG

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229324 representing NM_001302476
Red=Cloning site Green=Tags(s)

MTVTQKNLFPYGDYLNSSQLHMEPDEVDTLREGEDPADRMHPYLAIDYLQPLKAHPLVFAPGVPVIAQVV
 GTERYTSKSGKVGCTCTLYSVRLTHGDFWTWTKKKFRHFQELHRDLQRHKVLSLLPLARFAVTHSPAREAA
 AEDIPSLPRGGSEGSARHTASKQKYLENYLNRLTMSFYRNYHAMTEFLEVSQLSFIPDLGSKGLEGVIR
 KRSGGHRVPGFTFCGRDQVCYRWSKRWL VVKDSFLL YMRPETGAISFVQLFDPGFEVQVGVKIRSTETRYGV
 RIDTSHRSLILKCSSYRQARWWGQEITELAQQSGRDFLQLHQHDSYAPPRPGTLARW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

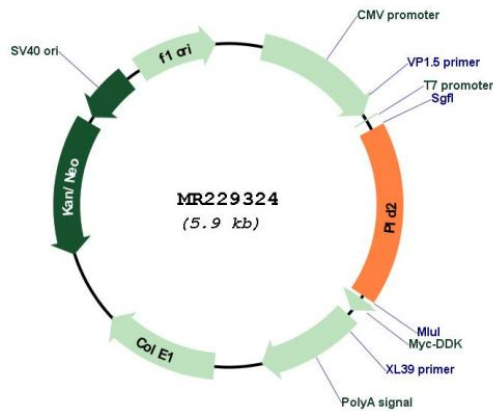
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302476

ORF Size: 1011 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
RefSeq:	NM_001302476.1 , NP_001289405.1
RefSeq Size:	3475 bp
RefSeq ORF:	1014 bp
Locus ID:	18806
Cytogenetics:	11 42.99 cM
MW:	39 kDa
Gene Summary:	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]