

Product datasheet for **RR210552**

Pld2 (NM_033299) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pld2 (NM_033299) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pld2
Synonyms:	Pldc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR210552 representing NM_033299
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGTAACCCAGACGGACCTTTCCCTATGGGGACTACCTGAACTCCAGCCAGTTGCACATGGAGC
 CAGATGAGGTTGACACTCTGAAGGAAGGAGAGGATCCAGCTGATCGAATGCATCCCTTTCTGGCCATCTA
 TGACCTTCAGCCTCTGAGAGCACACCCCTTGGTGTGGCTCCTGGGGTCCCTGTTATAGCCAGGTGGTA
 GGCACCGAAAGATACACCAGCGGATCCAAGGTGGGAACCTGACTCTTTATTCTGTTTCGATTGACCCATG
 GCGACTTTACCTGGACAACCAAGAAGAAATTCGACACTTTCCAGGAGCTGCATCGGGACCTCCAGAGACA
 CAAAGTCTTGATGAGTCTGCTCCCTCTGGCTCGCTTTGCTGCGGCCATTCTCCAGCCCGAGAGGCCAGCC
 AATGAGAATATCCCTCCCTACCCGAGGAGGTTCCGAGGGCTCTGCCAGACACAGCCAGCAAGCAGA
 AGTACCTGGAAAATTACCTCAACCGCCTCTGACCATGTCTTTCTATCGAAATTACCATGCCATGACAGA
 ATTTCTGGAAGTCAGTCAACTTTCTTTATCCCAGACCTTGGCTCCAAAGGACTGGAAGGGGTGATCCGG
 AAGCGCTCAGGTGGGCATCGAGTTCCTGGCTTCACCTGCTGTGGTTCGAGACCAAGTTTGTATCGATGGT
 CCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGCGTCCAGAGACTGGCGCCATCTCATT
 TGTTCAACTTTTTGACCTGGCTTTGAGGTCCAGGTGGGGAAAAGGAGCACAGAGGCACGGTATGGGGTG
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 GTCGACCCCACTCAGATGACTGGAGACTGGACATTATGCTCAAGAGGAAGCGGGAAGGATGTCGGTGT
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 TGTGCAGTACCGACTGACTGACCTGGGGGACCCCTCCGAATCTGCAGATTCACAGACTCCACGCCAGGT
 TCAGATCTGCAGCCACTCCAGACCTCTCGATAATCACTTCTTCTGGCTGGGAAAAGACTACAGCAACC
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 AATGCCATGGAGGATGTTGGAGTGGTTGACATGGAGTAGCTGCCCGGACCTTGCCCGCACTTCATC
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 AGTCCGCCAGCACTGCAACCATCTCCCTTCATAATCCAGGCGCAGTGCGCCACTGTGCAGGTCTT
 GCGGTCTGTGGATCGATGGTCAGCAGGGACTTTGGAGAGCTCCATCCTCAATGCCTACCTACATACCATC
 CGAGAGAGCCAGCACTTTCTCTACATTGAGAATCAGTTCTTATCAGCTGCTCAGATGGCGGTACAGTTC
 TGAACAAGGTGGGCGATGAGATTGTGGACAGGATCCTAAAGGCTCATGAACAGGGGCAGTGTTCGGAGT
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 GCCATTCTGCACTTACCTACAGGACCTGTGTGCTGGGAATATTCAATCTTACATCGTCTCAAAGCAG
 CCATGGGGACAGCATGGCGGGATTACATGTCCATCTGTGGGCTTCGCACACATGGAGAGCTGGCGGGCA
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 TCTGCAAAACATCAACGACAGGAGCTTGGTGGGAAGCGCGACAGTGAAGTACCCATACTGATCGAGGACA
 CAGAAATGGAGCCATCCCTCATGGATGGGTGGAGTACCAGGCAGGCAGATTTGCCTTGTGCTGCGGAA
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 TGCCGTCGAATGCTACTCGTTCCTGCGGGCTCTCCGGGAGTACGTGGCTGTGGAGTCTTGGCTACAGT
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 CTGGAGGATGAGTCTTGTGCCTCCACTGGGGAGCAAAGAGGGGATGATACCTTAGAAGTGTGGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RR210552 representing NM_033299
 Red=Cloning site Green=Tags(s)

MTVTQTDLFPYGDYLNSSQLHMEPDEVDTLKEGEDPADRMHPFLAIYDLQPLRAHPLVFAPGVPVIAQVV
 GTERYTSKSGKVGCTCTLYSVRLTHGDFWTWTKKKFRHFQELHRDLQRHKVLSLLPLARFAAAHSPAREAA
 NENIPSLPRGGSEGSARHTASKQKYLENYLNRLLTMSFYRNYHAMTEFLEVSQLSFIPDLGSKGLEGVIR
 KRSGGHRVPGFTCCGRDQVCYRWSKRWL VVKDSFLL YMRPETGAISFVQLFDPGFEVQVQVKRSTEARVGV
 RIDTSHRSLILKCSSYRQARWVGQEI TELAQGGPGRDFLQLHQHDSYAPPRPGTLARWVFNAGYFAAVAD
 AILRAREEIFITDWLSP E IYLKRP AHSDWRDLIMLKRKAE EGVRSILLFKEVELALGINSYKRTL
 MLLHPNIKVMRHPDLVTLWAHHEKLLVVDQAVAF LGGLDLAYGRWDDVQYRLTDLGDPSESADSQTPTPG
 SDPAATPDL SHNFFWLKGDYSNLITKDWQLDRPFEDFIDRETTPRMPWRDVGVVVHGAARDLARHFI
 QRWNFTKTIKARYKIPQYPYLLPKSASTANHLPIIPGAQCATVQVLRSDRWSAGTLESSILNAYLHTI
 RESQHFLYIENQFFISCS DGRV LNKV GDEIVDRILKAHEQGQCFRVYVLLPLLPGEFGDISTGGGNSIQ
 AILHFTYRTL CRGEYSILHRLKAAMGTAWRDYMSICGLRTHGELGGHPISELIYIHSKLLIADDRTV IIG
 SANINDRSLLGKRDESELAILIEDTEMEPSLMDGVEYQAGRFALSLRKHCFSVILGANTWPDLDLRDPVCD
 DFFQLWQETAENNATIYEQIFRCLPSNATRSRLRALREYVAVESLATVSPSLAQSELAHIRGHLVHFPLK
 LEDESLLPPLGSKEGMIPLEVWT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_033299

ORF Size: 2799 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

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_033299.2](#), [NP_150641.2](#)

RefSeq Size: 4562 bp

RefSeq ORF: 2802 bp

Locus ID: 25097

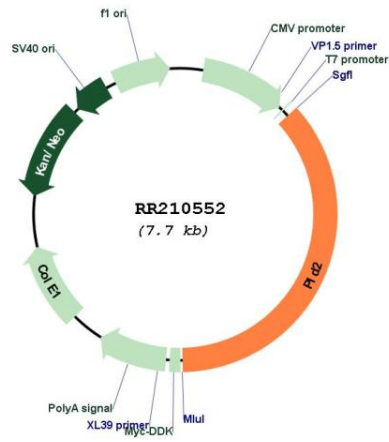
UniProt ID: [P70498](#)

Cytogenetics: 10q24

MW: 106 kDa

Gene Summary: catalyzes hydrolysis of phosphatidylcholine (PC) to phosphatidic acid and choline; involved in important cellular processes such as signal transduction, membrane trafficking, and mitosis regulation [RGD, Feb 2006]

Product images:



Circular map for RR210552