

Product datasheet for **MG226603**

Pld2 (NM_008876) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pld2 (NM_008876) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pld2
Synonyms:	PLD1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG226603 representing NM_008876
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGTAACCCAGAAGAACCTCTTCCCTATGGGGACTATCTGAACTCCAGCCAGTTGCACATGGAGC
 CAGATGAGGTTGACACTCTGAGGGAAGGAGAGGATCCAGCTGATCGAATGCATCCCTATCTGGCCATCTA
 TGACCTTCAGCCTCTGAAAGCACACCCCTTGGTGTTCGCCCTGGGGTCCCTGTTATAGCCAGGTGGTG
 GGCACCGAAAGATACACCAGCGGATCCAAGGTGGGAACCTGACTCTATATTCTGTTTCGCTTGACGCATG
 GTGACTTTACCTGGACAACCAAGAAGTTCGACACTTTCAGGAGCTGCATCGGGACCTCCAGAGACA
 CAAAGTCTTGATGAGTCTGCTCCCTTTGGCTCGCTTGTGTGACCCATTCTCCAGCCCGAGAGGCCAGCC
 GCCGAGGATATACCCTCCCTACCCGAGGAGGTTCTGAGGGCTCTGCCAGACACAGCCAGCAAACAGA
 AATACTTGAAAATTACCTCAACCGCTCTGACCATGTCTTTCTATCGCAATTACCACGCCATGACAGA
 ATTTCTGGAAGTCAGTCAACTTCTTTATCCCAGACCTTGGCTCCAAAGGACTGGAAGGGGTGATCCGG
 AAGCGCTCGGGCGGCATCGAGTCCCGCTTACCTTCTGTGGCCGAGACCAAGTTTGTATCGATGGT
 CCAAGAGGTGGCTGGTGGTGAAGGACTCCTTCTGCTGTACATGCGCCCGAGACCCGGCGCCATCTCATT
 TGTTACGCTTTTTGACCTGGCTTTGAGGTCCAGGTCCGAAAAAGGAGCACAGAGACCGGTATGGGGTG
 AGGATCGACACCTCCACAGGTCCCTGATTCTCAAATGCAGCAGCTACCGGCAGGCACGGTGGTGGGGCC
 AGGAGATCACGGAGCTGGCACAGGGTTCGGGCAGAGATTTTCTACAGCTACATCAGCATGACAGCTATGC
 CCCACCCCGCCCGCACCTGGCCCGTGGTTTGTGAATGGGGCAGGTTACTTTGCTGCTGTGGCAGAT
 GCCATCTGCGAGCTCAAGAGGAGATTTTATCACAGACTGGTGGTTGAGTCTGAAATTTACCTGAAGC
 GTCCAGCCATTCGACGACTGGAGACTGGACATTATGCTCAAGAGGAAGCGGGAAGAAGTGTCCGAGT
 TTCCATACTGCTGTTTAAGGAAGTGGAGCTGGCCTTGGGCATCAACAGTGGCTACAGCAAGAGGACGCTG
 ATGCTGCTGCATCCCAACATAAAGGTGATGCGACACCCAGACCTTGTGACTGTGGGCTCATCACGAGA
 AGCTCCTGGTGGTAGACCAAGTGGTGGCATTCTTGGGCGGCTGGACCTGGCCTTCGCGCCCTGGGATGA
 CGTGCAATACCGACTGACTGACCTGGGTGACCCCTCTGAACCTGTACATTTACAGACTCCACACTAGGT
 TCAGACCTGCAGCCACTCCAGACCTCTCGATAACCAATTCTTCTGGCTGGGAAAGGACTACAGCAACC
 TCATCACCAAGGACTGGGTGCAGCTGGACCGCCTTTTGAAGATTTATCGACAGGGAGACCACACCCAG
 GATGCCATGGAGGATGTTGGAGTGGTTGTACACGGAGTAGTCCAGGGACCTTGCCCGCACTTCATC
 CAGCGCTGGAATTTACCAAGACCACCAAGGCCAGGTATAAGACACCTTTGTACCCCTACCTGCTGCCCA
 AGTCCACCAGCACTGCAACAATCTCCCTTCATGATCCAGGGCGGCAGTGTGCCACTGTGCGAGTCTT
 GAGGTCTGTGGATCGATGGTCAGCAGGGACATTGGAGAATCCATCCTCAATGCCTACCTACATACCATT
 CGAGAGAGCCAGCACTTCTCTACATTGAGAATCAGTTCTTCAATTAGCTGCTCAGATGGGCGAACAGTTC
 TGAACAAGGTGGGCGATGAGATTGTGGACAGAATCCTGAAGGCTCACGAACAGGGGCAGTGTTCGAGT
 CTACTTGCTTCTGCCTTTGCTCCCTGGCTTTGAGGGGACATCTCCACAGGGGGTGGTAACCTCCATCCAG
 GCTATTCTGCACTTACCTACAGGACCTGTGTCTGGGAACATTCAATCCTACATCGTCTCAAAGCAG
 CCATGGGGACTGCGTGGCGAGATTACATGTCCATCTGTGGGCTTCGCACCCATGGAGAGCTGGGCGGGCA
 CCAATCTCTGAGCTCATCTATATCCACAGCAAGATGCTCATTGCGGATGACAGAACAGTCACTATTGGT
 TCTGCGAACATCAATGACAGGAGCTTGTGGGAAGCGTGACAGTGAGTAGCCATCCTGATCAAGGACA
 CAGAAATGGAACCATCCCTCATGGATGGGTGGAGTACCAGGCAGGCAGATTTGCCTTGAGTTTGGGAA
 GCACTGTTTCAGTGTGATTCTTGGGGCAAATACCTGGCCAGACCTGGATCTCCGAGACCTGTCTGTGAT
 GACTTCTCCAGCTGTGGCAAGAAACAGCGGAGAAACAATGCCACCATCTATGAGCAGATCTTCCGCTGCC
 TGCCGTCCATGTACCCGTTCCCTGCGGGCTCTCCGGGAGTATGTGGCTGTGGAGTCTTGGCTACAGT
 CAGCCCTCTTTGGCTCAGTCTGAGCTTGGCCACATCCAGGGCCACCTAGTTCATTCCCCCTCAAGTTT
 CTGGAGGACGAGTCTTGTGCCCCACTGGGGAGTAAAGAAGGGATGATACCTTTAGAAGTGTGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226603 representing NM_008876
 Red=Cloning site Green=Tags(s)

MTVTQKNLFPYGDYLNSSQLHMEPDEVDTLREGEDPADRMHPYLAIDYDLQPLKAHPLVFAPGVPVIAQVV
 GTERYTSKSGKVGCTCTLYSVRLTHGDFWTTKKKFRHFQELHRDLQRHKVLSLLPLARFVTHSPAREAA
 AEDIPSLPRGGSEGSARHTASKQKYLENYLNRLTMSFYRNYHAMTEFLEVSQLSFIPDLGSKGLEGVIR
 KRSGGHRVPGFTFCGRDQVCYRWSKRWL VVKDSFLL YMRPETGAISFVQLFDPGFEVQVGKRSTETRYGV
 RIDTSHRSLILKCSSYRQARWGWQEITELAQGSGRDFLQLHQHDSYAPPRPGTLARWFVNGAGYFAAVAD
 AILRAQEEIFITDWLSP E IYLKRP AHSDDWRLDIMLKRKAE EGVRS ILLFKEVELALGINSYKRTL
 MLLHPNIKVMRHPDLVTLWAHHEKLLVVDQVVAFLGGLDLAFGRWDDVQYRLTDLGDPSEPVHLQPTLG
 SDPAATPDL SHNQFFWLKGDYSNLITKDWVQLDRPFEDFIDRETTPRMPWRDVGVVHGAARDLARHFI
 QRWNFTKTTKARYKTPLYPYLLPKSTSTANNLPFMIPGGQCATVQVLRSDRWSAGTLENSILNAYLHTI
 RESQHFLYIENQFFISCS DGRV LNKVGDEIVDRILKAHEQGQCFRVYLLPLLPGFEGDISTGGGNSIQ
 AILHFTYRTL CRGEHSILHRLKAAMGTAWRDYMSICGLRTHGELGGHPISELIYIHSKMLIADDRTVIIG
 SANINDRSLLGKRDESELAILIKDTEMPSLMDGVEYQAGR FALS LRKHCFSVILGANTWPDLDLRDPVCD
 DFFQLWQETAENNATIYEQIFRCLPSNATRSRLALREYVAVESLATVSPSLAQSELAHIQGLVHFFLKF
 LEDESLLPPLGSKEGMIPLEVWT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

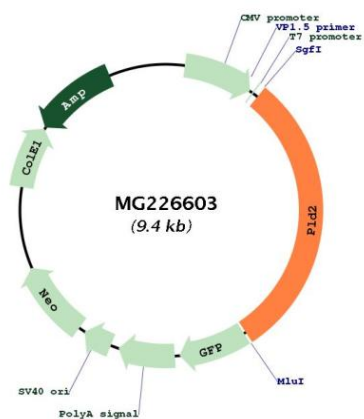
Cloning Scheme:



ACCN: NM_008876

ORF Size:	2799 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_008876.3 , NP_032902.1
RefSeq Size:	3801 bp
RefSeq ORF:	2802 bp
Locus ID:	18806
UniProt ID:	P97813
Cytogenetics:	11 42.99 cM
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]

Product images:



Circular map for MG226603