

Product datasheet for **RG238527**

PLD3 (NM_001291311) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLD3 (NM_001291311) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLD3
Synonyms:	AD19; HU-K4; HUK4; SCA46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238527 representing NM_001291311.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
 ATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAGAGGAGCCCGCCAATGAGCTGCCCATG
 AATGAGATTGAGCGTGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCTGCTGGTCTCATTCTGGCG
 GTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACTTGCATCTCTTTGGG
 CCCAACACAGCGCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTCTGGTGGAAAGCATTCTGAGGGC
 CTGGACTTCCCCAATGCCTCCACGGGGAACCTTCCACCAGCCAGGCTGGCTGGGCTGCTCGCCGGT
 GCGCACAGCAGCCTGGACATCGCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAG
 CCCTCTGCCCAGCAGGGTGAAGGCTCCTCCGGCAGCTGCAGACCCTGGCACAAAGGGCGTGAACGTC
 CGCATCGCTGTGAGCAAGCCAGCGGGCCCGCCAGCCAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGT
 GCCCAGGTCGCATGGTGGACATGCAGAAGCTGACCCATGGCGTCTGCATACCAAGTTCTGGTGGTG
 GACCAGACCCACTTCTACCTGGGCACTGCAACATGGACTGGCGTTCCTGACCCAGGTCAGGAGCTG
 GCGTGGTGTGTACAACCTGCAGCTGCCTGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTC
 CTGGGCCAGGCAGGCTCCATCCCATCAACTTGGCCCCGGTCTATGACACCCGCTACAACCAAGAG
 ACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGGCTACCTGGCGAGTGCGCCCCACCCCTG
 TGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGGTGGACAATGCCCGGAGTTTCATC
 TACGTCGCTGTGATGAACCTGCCACTCTGGAGTTCTCCACCCTCACAGGTTCTGGCTGCCATT
 GACGATGGGCTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCTGCTCATCAGCTGCTGGGA
 CACTCGGAGCCATCCATCGGGCCTTCTGCTCTCTGGCTGCCCTGCGTGACAACCATACCCACTCT
 GACATCCAGGTGAAACTCTTTGTGGTCCCCGGATGAGGCCAGGCTCGAATCCCATATGCCCGTGC
 AACCAACAAGTACATGGTACTGAACCGCCACCTACATCGGAACCTCCAACCTGGTCTGGCAACTAC
 TTCACGGAGACGGCGGGCACCTCGCTGCTGGTGAACGAGAAATGGGAGGGCGGCCTGCGGAGCCAGCTG
 GAGGCCATTTTCTGAGGGACTGGGACTCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTG
 GGCAACGCCTGCCGCTGCTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238527
 Blue=ORF Red=Cloning site Green=Tag(s)

MKPKLMYQELKVPAEEPANELPMNEIEAWKAAEKARWVLLVILAVVGFALMTQLFLWEYGLHLFG
 PNQRPAFCYDPCAVLVEIPEGLDFPNASTGNPSTSQAWLGLLAGAHSSLDIASFYWTLTNDTHTQE
 PSAQQGEEVLRQLQTLAPKGVNVRIVSKPSGPQPQADLQALLQSGAQVRMVDQMQLTHGLVHTKFWV
 DQTHFYLGANMDWRSLTQVKELGVVMYNCSLARDLTKIFEAYWFLGQAGSSIPSTWPRFYDTRYNQE
 TPMEICLNPTALAYLASAPPPLCPSGRTPDLKALLNVVDNARSFIYVAVMNYLPTLEFSHPHRFWPAI
 DDGLRRATYERGVKVRLLISCWGHSEPSMRAFLLSLAALRDNHHSIDIQVKLFVVPADAEQARIPYARV
 NHNKYMVTERATYIGTSNWSGNYFTETAGTSLLVQNGRGLRSQLEAIFLRDWDSPYSHDLTSDSV
 GNACRLL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001291311

ORF Size: 1470 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).

RefSeq: [NM_001291311.1](#), [NP_001278240.1](#)

RefSeq Size: 2141 bp

RefSeq ORF: 1473 bp

Locus ID: 23646

UniProt ID: [Q8IV08](#)

Cytogenetics: 19q13.2

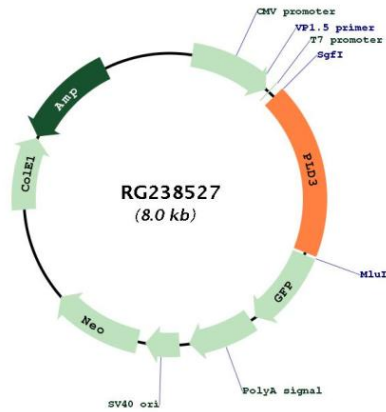
Protein Families: Transmembrane

MW: 54.7 kDa

Gene Summary:

This gene encodes a member of the phospholipase D (PLD) family of enzymes that catalyze the hydrolysis of membrane phospholipids. The encoded protein is a single-pass type II membrane protein and contains two PLD phosphodiesterase domains. This protein influences processing of amyloid-beta precursor protein. Mutations in this gene are associated with Alzheimer disease risk. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RG238527