

Product datasheet for **SC115432**

PLD3 (NM_001031696) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLD3 (NM_001031696) Human Untagged Clone
Tag:	Tag Free
Symbol:	PLD3
Synonyms:	AD19; HU-K4; HUK4; SCA46
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001031696 edited
CTGGAAGGTGCGTGTGGGGCTGGGTCTCGGAGTGGGAGACGTGGAGTGCAGGTAATGCAT
GTCCATGGTACACAAATTCACAAGGTTTGTAAATGAGAAAAGACGTGAGGTTCTTTTTGT
TCTTTACCTGTGGCCTCCCTGCCCTACACGGGGACTCTAGGGTGGAAATGTAGCAAAGCCC
ATCCACCAGCCATGTACTACCCCAACCCGGCCAGGCTGGAGCGACCGTGTCTGGGGAG
CCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGACTGGGGCACGCACTGCGCAGACTCCCC
GCTGCAGTGGGCGGAGCTCCACAGGCCCGCCCTCCTCCACCCTCGTTTCAGCCTGT
CCAGACAGAAGCTGGGGCCAGCGGAGGTAGCAGCAGACGCTGAGAGCGAGGCCGAGGC
CCCTCAGGGTTTGAGACCCTGACACACCCACCTTCTCACCTGGGCTCTGCGTATCCCC
AGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAGAGG
AGCCCCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGAAGGCTGCGGAAAAGAAAAG
CCCCTGGGCTCTGCTGGTCTCATTCTGGCGTTGTGGGCTTCGGAGCCCTGATGACTC
AGCTGTTTCTATGGGAATACGGCGACTTGATCTCTTTGGGCCAACAGCGCCAGCCC
CCTGCTATGACCCTTGCAGAGCAGTGTGGTGGAAAGCATTCTGAGGGCCTGGACTTCC
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CGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCACAC
CGCAGGAGCCCTCTGCCAGCAGGGTGAGGAGTCTCCGGCAGCTGCAGACCCTGGCAC
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CCCATGGCGTCTGCATACCAAGTTCTGGGTGGTGGACCAGCCACTTCTACCTGGGCA
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AGGCAGGCAGCTCCATCCATCAACTTGGCCCCGGTTCTATGACACCCGCTACAACCAAG
AGACACCAATGGAGATCGCCTCAATGGAACCCCTGCTCTGGCCTACCTGGCGAGTGCGC
CCCCACCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGGTGG
ACAATGCCCGGAGTTTCACTACGTCGCTGTCATGAACTACCTGCCACTCTGGAGTTCT
CCCACCCTCACAGGTTCTGGCCTGCCATTGACGATGGGCTGCGGCGGGCCACCTACGAGC
GTGGCGTCAAGGTGCGCCTGCTCATCAGCTGCTGGGGACACTCGGAGCCATCCATGCGGG
CCTTCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCCACTCTGACATCCAGGTGA
AACTCTTTGTGGTCCCCGCGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCAACC
ACAACAAGTACATGGTGAAGTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCA
ACTACTTCACGGAGACGGCGGGCACCTCGCTGCTGGTGAACGAGAATGGGAGGGGCGGCC
TGGCGAGCCAGCTGGAGGCCATTTCTGAGGGACTGGGACTCCCTTACAGCCATGACC
TTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGCTCTGAGGCCCGATCCAGT
GGGCAGGCCAAGGCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCCTGT
CCCCGACCCCCGCTTCTGTCTGCCCCATTGTGGCTCCTCAGGCTCTCTCCCCTGCTCTC
CCACCTTACCTCACCCCCACCGGCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGG
GGGAGGGATCAGCCCCAAAGAAATGGGGTGCATGCTGGGCTGGCCCCCTGGCCCACC
CCCACTTCCAGGGCAAAAAGGGCCAGGGTTATAATAAGTAAATAACTTGTCTGTACAA
AAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001031696 unedited CATATTTGTATACGACTCACTATAGGGCGGCCCGAATTCGCACGAGGCTGGAAGGTGC GTGTGGGGCTGGGTCTCGGAGTGGGAGACGTGGAGTGCAGGTAATGCATGTCCATGGTAC ACAAATTCACAAGGTTTGTAAATGAGAAAAGACGTGAGGTTTCTTTTGTCTTTACCTGT GGCCTCCCTGCCCTACACGGGGACTCTAGGGTGAATGTAGCAAAGCCATCCACCAGCC ATGTACTACCCCCAACCCGGCCAGGCTGGAGCGACCGTGTCTGGGGAGCCGAGCCCCGC TTCTCGCTGCGGTGAGCCCGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGG CGGAGCTCCACAGGCCCGCCCTCCTCCACCCCTCGTTCAGCCTGTCCAGACAGAAG CTGGGGCCAGCGGAGGTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTT TGGAGACCCTGACACACCCACCTTCTCACCTGGGCTCTGCGTATCCCCAGCCTTGAGGG AAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAGAGGAGCCCGCAAT GAGCTGCCATGAATGAGATTGAGGCGTGAAGGCTGCGGAAAAGAGCCCGCTGGGTCC TGCTGGTCTCATTCTGGCGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTAT GGAATACGGCGACTTGCATCTCTTTGGGCCACCAGCGCCAGCCCCCTGCTATGACC TTGCGAAGCAGTCTGGTGGAAAGCATTCTGAGGGCCTGGACTTCCCCATGCCTCCAGC GAAACCTTCCCCCCCAGGCCCTGCCTGCCTGCTCNNGTGCACCAGAGCCTGNACAT CGTCCTTTATTGAACCTCACCACATGACACCACCCGNAGCCTCTGCCACCAGCGAA GGAGCCCTCGCACTTCAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001031696 unedited GCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGTACAGACAAGTTATTAC TTATTATAACCCCTGGGCCCTTTTTGCCCTGGAAAGTGGGGTGGGCCAGGGGCCAGGCC CAGCATGCACCCCATTTCTTTGGGGCTGATCCCTCCCCAGCTCTGCTGGGTCCCAGG GCCACAGCGTCAGGCCGGTGGGGTGGAGGTAGAGGTGGGAGAGCAGGGGAGAGCCTG AGGAGCCACAATGGGGCAGACAGAAGCGGGGTGCGGGGACAGGGACCGTGACCCAGAGC ACCTGGGTCCGCGGGGGCCAGCAGGCCTTGGCCTGCCACTGGATCGGGCTCAGAGCA GGCGGCAGGCGTTGCCACGCTGTGAGTCAAGGTGCAAGGTGTAAGGGGAGT CCCAGTCCCTCAGGAAAATGGCCTCCAGCTGGCTCCGAGGCCGCCCTCCCATTCTGCG TCACCAGCAGCGAGGTGCCCGCGTCTCCGTGAAGTAGTTGCCAGACCAGTTGGAGTTT CGATGTAGGTGGCGCTTCACTACCATGTAAGTTGTTGTTGACACGGGCATATGGGA TTCGAGCCTGGGCTCATCCGCGGGGACCACAAAGAGTTTACCTGGATGTCAGAGTGGG TATGGGTTGTACGCAGGGCAGCCANAGAGAGCAGGAAAGCCCGCATGGATGGCNTCCGA GTGTCCCCAGCAGCTGATGAGCACGCGCACCTTGACGCCAGCTCGTTAGGTGGCCCGNCG CAGNCCATCGTCAATGGCAGGCCAGACCTGGGGAGGGTGGGGAGAACTNCANAATGGGCC AGGTAGTTCATGACAGCGACGTAATGAAACTCCGGGCATTGCCACCACGTGATAAGAA CCTCAGGGTCTGGATGCGGGCACTGAACCAGGGGGGGGGGGCGCCCTCGCCAGGAAGCC AA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001031696
Insert Size:	2300 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001031696.1](#), [NP_001026866.1](#)

RefSeq Size: 1954 bp

RefSeq ORF: 1473 bp

Locus ID: 23646

UniProt ID: [Q8IV08](#)

Cytogenetics: 19q13.2

Protein Families: Transmembrane

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]
Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1, 2 and 3 encode the same protein.