

Product datasheet for **MG208093**

Plcd1 (BC015249) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcd1 (BC015249) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plcd1
Synonyms:	AW212592; C79986
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208093 representing BC015249
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACTCCGGTCGGACTTCTGACCTTGCACGGCTGCAGGATGACCCGGACCTTCAGGCCCTCTGA
 AGGGCAGCCAGCTTCTGAAGGTGAAATCCAGCTCGTGGCGTAGAGAACGCTTCTACAAGCTACAGGAGGA
 CTGCAAGACCATCTGGCAGGAATCTCGAAGGTATGAGGTCCCCGGAGTCGCAGCTGTTCTCCATCGAG
 GACATTACAGGAGTGGGATGGGACACCCGACAGAAAGGCTGGAGAAATTTGCCAGAGACATACCCGAGG
 ACCGATGCTTCTCCATCGTCTTCAAGGACCAGCGCAATACCCTAGACCTCATCGCCCCGTCTCCAGCTGA
 CGTCCAGCATTGGGTGCAGGGCTGCGCAAGATCATCGACCGCTCGGGCTCCATGGACCAGCGGCAGAAG
 CTGCAGCACTGGATTCACTCCTGCTTGCAGAAAGGCTGATAAAAACAAGGATAACAAGATGAACCTCAAGG
 AGGTGAAGGACTTCTGAAGGAGCTCAACGTACAGGTGGATGACAGCTACGCCAGGAAGATCTTCAGGGA
 ATGTGACCACTCCAGACAGACTCGCTGGAGGATGAGGAGATTGAGACCTTCTACAGGATGCTGACCCAG
 CGGGCAGAGATCGACCGTGCCTTTGCAGAGGCCGAGGTTCTGCGGAGACCCTGTGGTGGAGAAGCTAG
 TGACGTTCTGCAGCATCAGCAGCGGGAGGAGGAGGCGGGGCCAGCCTTGCCCTCTCTCATTGAGCG
 CTACGAGCCAGTGAGACTGCCAAAGCCAGCGGCAGATGACCAAGGATGGCTTCTCATGTACCTGCTG
 TCTGCTGACGGTAACGCCTTCAGCCTGGCGCACCCCGTGTCTACCAGGACATGAACCAGCCGCTCAGCC
 ACTACTTAGTGTCTTCTCCACAACACCTACCTACTGGAGGACCAGCTCACAGGGCCAGCAGCACGGA
 GGCCTACATCCGGCTCTGTGCAAAGGCTGCCGGTGTCTGGAGCTGGACTGCTGGGACGGCCCCAACCCAG
 GAACCCATCATCTACCACGGCTACACTTTTACCTTAAGATACTTTTCTGCGACGTGCTCAGGGCCATCC
 GGGACTACGCCTCAAGGCATCCCCCTACCCGTTATCCTGTCCTGGAGAACCAGCTGCAGCTGGAGCA
 ACAACGAGTCATGGCTCATCACCTGAGGGCCATCCTGGGGCCATGCTGTTGGACCAGCCGCTGGATGGG
 GTTACCACGAGCCTGCCTTCGCCTGAGCAACTGAAGGAAAAGATTCTGTTGAAAGGGAAGAACTGGGCG
 GGCTGCTACCTGCTGGAGGGGAAAACGGGCTGAAGCCACCGATGTGTCTGACGAAGATGAGGCTGCTGA
 AATGGAAGATGAGGCCGTGCGCAGCCAAGTGCAACACAAGCCCAAGTGCCACCTTGTCTACCTACCTACCT
 ATGGCTTAACCTGGGCTCCCCGCGGCCCCAGGAGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208093 representing BC015249
 Red=Cloning site Green=Tags(s)

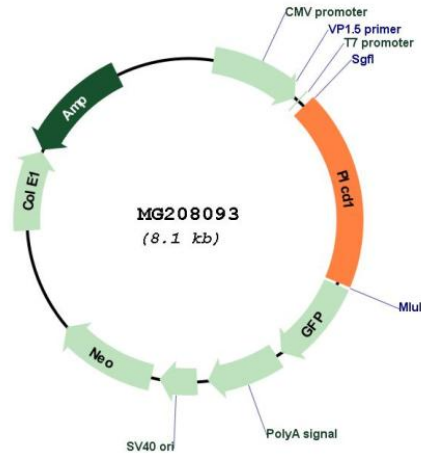
MDSGRDFLTLHGLQDDPDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIWQESRKVMRSPESQLFSIE
 DIQEVRMGHRTEGLEKFARDIPEDRCFSIVFKDQRNTLDLIAPSPADVQHWVQGLRKIIDRSGSMDQRQK
 LQHWIHSCLRKADKNKDNKMNFKVDFLKELVNVDVQVDDSYARKIFRECDHSQTDSEDEEIEETFYRMLTQ
 RAEIDRAFAEAAGSAETLSVEKLVTFLLHQHQREEEAGPALALSLIERYEPSETAKAQRQMTKDGFLMYLL
 SADGNAFSLAHRVYQDMNQPLSHYLVSSSHNTYLLLEDQLTGPSSTEAYIRALCKGRCLELDCWDGPNQ
 EPIIYHGYFTSKILFCDVLRDIRDYAFKASPYPVILSLENHCSLEQQRVMAHHLRAILGPMLLDQPLDG
 VTTSLPSPEQLKEKILLKGGKLLPAGGENGPEATDVSEDEAAEMEDEAVRSQVQHKPKCPPCPTLP
 MALTWASPRPPGG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: BC015249

ORF Size: 1509 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:

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: [BC015249.1](#)

RefSeq Size: 2674 bp

RefSeq ORF: 1511 bp

Locus ID: 18799

Cytogenetics: 9 F3

Gene Summary: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. Essential for trophoblast and placental development.[UniProtKB/Swiss-Prot Function]