

Product datasheet for **MR210488**

Plcd1 (NM_019676) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcd1 (NM_019676) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plcd1
Synonyms:	AW212592; C79986
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210488 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGACTCCGGTCGGACTTCTGACCTTGACCGGCTGCAGGATGACCCGGACCTTCAGGCCCTCTGA
 AGGGCAGCCAGCTTCTGAAGGTGAAGTCCAGCTCGTGGCGTAGAGAACGCTTCTACAAGCTACAGGAGGA
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 ACCGATGCTTCTCCATCGTCTTCAAGGACCAGCGCAATACCCTAGACCTCATCGCCCCGTCTCCAGCTGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210488 protein sequence
 Red=Cloning site Green=Tags(s)

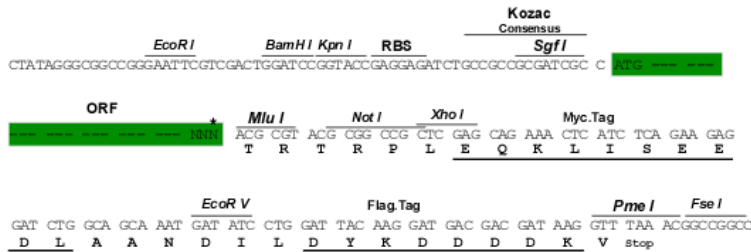
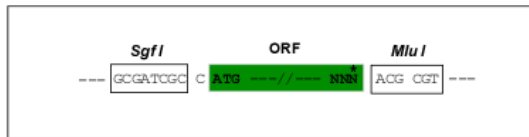
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 DIQEVRMGHRTEGLEKFARDIPEDRCFSIVFKDQRNTLDLIAPSPADVQHVVQGLRKIIDRSGSMDQRQK
 LQHWIHSCLRKADKNKDNKMNFKVDFLKELVNQVDDSYARKIFRECDHSQTDLSLEDEE IETFYRMLTQ
 RVEIDRAFAEAAGSAETLSVEKLVTFLLQHQQREEEAGPALALSLIERYEPSETAKAQRQMTKDGFLMYLL
 SADGNAFSLAHRVYQDMNQPLSHYLVSSSHNTYLLLEDQLTGPSSTEAYIRALCKGRCLELDCWDGPNQ
 EPIIYHGTYFTSKILFCDVLRAIRDYAFKASPYPVILSLENHCSLEQQRVMAHHLRAILGPMLLDQPLDG
 VTTSLPSPEQLKEKILLKGGKLLGGLLPAGGENGPEATDVSEDEAAEMEDEAVRSQVQHKPKEDKLLKLPV
 ELSDMVIYCKSVHFGGFSSTSGQAFYEMASFESRALRLQESGNSFVRHNVGHL SRIYPAGWRTDSS
 NYSPVEMWNGGCQIVALNFQTPGPEMDVYL GCFQDNGGCGYVLPKPAFLRDPDTTFNSRAL TQGPWWAPKK
 LRVWIIISGQQLPKVKNKNSIVDPKIVIEIHGVGQDVASRQTAVITNNGFNPRWDEFEFVVAVPDLALV
 RFMVEDYDSSSKNDFIGQSTIPWNSLKQGYRHVHLLSKNGDLHPSATLFVKISIQD

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_019676

ORF Size: 2271 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: [NM_019676.1](#), [NM_019676.2](#), [NM_019676.3](#), [NP_062650.1](#)

RefSeq Size: 2657 bp

RefSeq ORF: 2271 bp

Locus ID: 18799

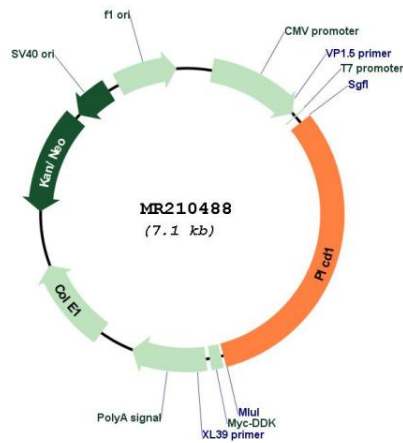
UniProt ID: [Q8R3B1](#)

Cytogenetics: 9 F3

MW: 85.9 kDa

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]

Product images:



Circular map for MR210488