

Product datasheet for **MC203035**

Plcd1 (NM_019676) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcd1 (NM_019676) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plcd1
Synonyms:	AW212592; C79986
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025798
 CCGGACTGCGCAAGGACCCAGGCCGCTTGGTGGTTGTTGCTCAAGTGAATCACGCCGCGTCCCCTCCTC
 CGCGCGCCCCGACCGGCATGGACTCCGGTGGGACTTCTGACCTTGACGGGCTGCAGGATGACCCGGA
 CCTTCAGGCCCTCTGAAGGGCAGCCAGCTTCTGAAGGTGAAGTCCAGCTCGTGGCGTAGAGAACGCTTC
 TACAAGCTACAGGAGGACTGCAAGACCATCTGGCAGGAATCTCGAAAGGTCATGAGGTCCCCGAGTCGC
 AGCTGTTCTCCATCGAGGACATTGAGGAGTCCGATGGGACACCGCACAGAAGGCTGGAGAAATTTGC
 CAGAGACATAACCGAGGACCGATGCTTCTCCATCGTCTTCAAGGACCAGCGCAATACCCTAGACCTCATC
 GCCCGTCTCCAGCTGAGTCCAGCATTGGGTGCAGGGCCTGCGCAAGATCATCGACCGCTCGGGCTCCA
 TGGACCAGCGGCAGAAGCTGCAGCACTGGATTCTCCTGCTTGGCAAAGGCTGATAAAAAACAAGGATAA
 CAAGATGAACTTCAAGGAGGTGAAGGACTTCTGAAGGAGCTCAACGTACAGGTGGATGACAGCTACGCC
 AGGAAGATCTTCAGGGAATGTGACCACTCCAGACAGACTCGCTGGAGGATGAGGAGATTGAGACCTTCT
 ACAGGATGCTGACCCAGCGGGTAGAGATCGACCGTGCCTTTCAGAGGCCGAGGTTCTGCAGAGACCT
 GTCGGTGGAGAAGCTAGTGACGTTCTGCAGCATCAGCAGCGGGAGGAGGAGCGGGGCCAGCCTTGGCC
 CTCTCTCTATTGAGCGCTACGAGCCAGTGAGACTGCCAAAGCCAGCGGCAGATGACCAAGGATGGCT
 TCCTCATGTACCTGCTGTCTGCTGACGGTAACGCCTTCAGCCTGGCGCACCGCGTGTCTACCAGGACAT
 GAACCAGCCGCTCAGCCACTACTTAGTGTCTTCTCCACAACACCTACCTACTGGAGGACCAGCTCACA
 GGGCCACGAGCAGGAGGCCTACATCCGGGCTCTGTGCAAAGGCTGCCGGTGTCTGGAGCTGGACTGCT
 GGGACGGCCCAACCAGGAACCCATCATCTACCAGGCTACACTTTTACCTTAAGATACTTTTCTGCGA
 CGTGCTCAGGGCCATCCGGGACTACGCCTTCAAGGCATCTCCCTACCCAGTTATCCTGTCCCTGGAGAAC
 CACTGCAGCCTGGAGCAACAACGAGTCATGGCTCATCACTGAGGGCCATCCTGGGGCCATGCTGTTGG
 ACCAGCCGCTGGATGGGGTTACCACGAGCCTGCCTTCGCTGAGCAACTGAAGGAAAAGATTCTGTTGAA
 AGGGAAGAAGCTGGGCGGGCTGCTACCTGCTGGAGGGGAAAACGGCCTGAAGCCACCCAGTGTCTGAC
 GAAGATGAGGCTGCTGAAATGGAAGATGAGGCCGTGCGCAGCCAAGTGCAACACAAGCCAAAGGAGGATA
 AGCTAAAGCTGGTGCCGAGCTCTCCGACATGGTCATTTACTGCAAGAGTGTCCACTTTGGTGGCTTCTC
 CAGTCCTAGCACCTCTGGGCAGGCATTCTATGAGATGGCTTCTTCTCCGAGAGCCGTGCCCTGCGGCTG
 CTGCAAGAATCAGGAAATAGTTTTGTCCGCCATAACGTGGGCCATCTGAGCAGGATCTACCAGCTGGGT
 GGAGGACAGATTCTCCAACCTACAGTCCCGTGGAGATGTGGAATGGAGGCTGCCAGATTGTGGCTGAA
 CTTCCAAACCCCTGGGCCAGAAATGGATGTTTACCTTGGCTGCTCCAGGACAATGGAGTTGTGGGTAT
 GTGCTGAAACCGCCTTCTGAGAGACCCTGACACCACCTTCAACTCACGGGCCCTGACTCAGGGGCCCT
 GGTGGGCCCAAGAAGCTCAGAGTCTGGATCATCTCTGGACAGCAGCTGCCGAAGTCAATAAGAATAA
 GAATTCTATCGTGACCCCAAGGTGATAGTGGAGATCCACGGTGTGGGCCAGGATGTGGCCAGCCGTCAG
 ACAGCAGTTATTACCAATAATGGTTTCAACCCACGGTGGGACACGGAGTTTGAGTTTGTGGTAGCAGTGC
 CTGACCTTGCCCTGTACGTTTCTAGGATAGAGGATTATGACTCCTCTAAGAACGACTTTATCGGCCA
 GAGTACTATCCCCTGGAACAGCCTCAAGCAGGGGTACCGCATGTCCACCTTTGTCTAAGAATGGAGAC
 CTGCATCCATCAGCCACTCTTTTGTGAAGATCCATCCAGGACTAAGCCTGGGGGTCTGACGCAGTCC
 GCCCTGAGTGGGCGGAGCTGTGTCCACACTGTCTGGCAATGTTGCACCTCTGGCGGGAGCTTGAGGCC
 ACTGAACTGCCTCAGCTCTAACACATTGCCTGAGCTTCTACTTCTTGGGGTCCAGGAGCAGTCCAGT
 CCCCAGTGGTCTAAAATTCGGTTAGGAATCAACTGCATCTCTCCCTACCCTAGTTGACTTTAG
 GTTGTGAGTTTTATATAAAAAAAAAATAAATCACAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_019676
- Insert Size:** 2271 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).
- 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: [BC025798](#), [AAH25798](#)

RefSeq Size: 2641 bp

RefSeq ORF: 2271 bp

Locus ID: 18799

UniProt ID: [Q8R3B1](#)

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]
Transcript Variant: This variant (2) differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded protein (isoform 2) has a distinct and shorter N-terminus, compared to isoform 1.