

Product datasheet for **MC204781**

Plcd4 (NM_001081456) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcd4 (NM_001081456) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plcd4
Synonyms:	4921507K24Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC066156
 TCGCAGACACAAGATTACTATCCTACCTACGGTACTCTGGCACCAGCTGGTGGAGCAGTGGGTGATGAC
 ATCTCAGATTC AAGACCTACTAGCCACTGATCAGGACCTGCTGCTGATGCAAGAAGGCACAATGATGCGC
 AAGGTGAGGACCAAAAGCTGGAAGAAGCTAAGATACTTCAGACTTCAGAATGACGGCATGACAGTCTGGC
 ATGGAAGTCAACCAGAAAGCATGCCAAGCCACTTTTTTCGATCTCTGATGTGGAGAGGATACGTAAGGG
 GCAGGATTCTGAGTTGTTGCGCTATCTGGTGGAGGAGTTCCCTGGAGCAAGGGTTCACCGTTGTCTTT
 CATGGGCGCCGCCAACCTGGACCTAGTGGCCAACAGTGTGAAGAGGCCAGATTTGGATGCGAGGAC
 TCCAGCTGTTGGTGGATCTTGTGCCAGCATGGACCACCAGGAGCAAATGGATCAAATGTTGAATGAGTG
 GTTCCAGCAAGCAGACAGAAACCAGGATGGCCGGATGAGTTTCAGAGAAGCTCAACGGCTGCTGCTCTG
 ATGAACGTGGAATGGATGAAGAGTACGCCTTCAGTCTTTCCAGGAGGCAGATGTTACCCAGTCTGATG
 ATCTGGGGTGGAAAGATTTGTACAGTTCTATAAGGCCCTGACTAAGCGCACTGAGATTGAAGAAATATT
 TGAGGACTTCTCATCTGACAAACAGAAGCTGACCTTGCTGGAATTTGTGGATTTCCCTTAGAAAGGAACAG
 AAAGAAAAGACCATGCTCCTGACCTCGCTCTGGAACCTATTGACCGCTATGAGCCTTCTGAGAATGGCC
 GATTGCTGCATGTCTGAGCAAGGATGGCTTCTCAAGTACCTCTGCTCGAAGGATGAAACATCTTCAA
 CAGTGACTGCCTCCCTATCTACCAGGATATGACTCAGCCTCTGAGCCACTACTACATTAACCTTTCTCAC
 AACACCTACCTAGCGGGGACCAGCTTTGCGGCCAGAGCAGCGTTGAAGGATACATACGGGCCTTGAAC
 GGGGTGCGCTGTGTGGAGGTGGACACGTGGGATGGACCTGATGGAGAGCCTGTGTTTATCATGGGCA
 TACCCTGACCTCTCGCATCCTATTC AAGATGTGTTGGCAACTCTCGCGCAATATGCCCTCCAGTCATCA
 GACTACCTCTCATCTTGTCTCTGGAAAACCACTGCACCTGGGAACAGCAGAGGACCATGGCACACCATC
 TGACCGAGATCCTGGGAGAGCAGCTGCTGAGGAACACCCTAGAGGGATTGCTGGTTGACAGCATGCCCTC
 GCCAGAGCAGCTTCGGGGGAAGATCTTGGTGAAGGAAAGAAGTTAAGAACAATTGAAGTTGACAAGGAA
 GAAGAAGAAGAAGAAGAAGAAGAGCTGGAGAAAGATGAGGGCCAGATCTGGACCCAGCCTCCCCTG
 AGTTGGACACTCAACCTCAGCCTGAGACCCAGGGCAGGCCGCTGGGAACAAGAAGGAGAGGAAGAAGAA
 GTTCTCTCTGAGTTCCACAACCATCATGTGCCAGCCTATCTGCCCTGGTTGTCTACTTGAGGACT
 GTCCCCTTCTGCAGTTCACCTATTCCAAGAAAACCTACACATCTATGACATTTTCATCCTTTTCTGAGT
 CCAAGGCCAAGAACCTCATCAAGGAGGCAGGCAACGAGTTGTACAGCACAATGCCAGACAGTTATGCTG
 CGTGTATCCCAGTGGTCTGAGGACAGATTCATCCAACCTTAACCCCCAGGAACACTGGAATGTAGGCTGC
 CAGATGGTGGCTATGAATATGCAGACTGCAGGAAGTGAATGGATATCTGTGATGGGCTCTCCGCCAGA
 ATGGTGGCTCTGGCTATGTGCTGAAGCCAGAATCCTGAGAGATACCCAGAGTTCATTCAATCCTGAGAG
 GCCAATTAGTCTTTATAAGGCCAGATCCTTGTAGTCCAGGTGATCAGTGGCCAACAACCTCCCAAAGTG
 GATAAAACCAAAGAGACAACCGTTGTGGATCCACTGGTGAAGTGAAGCTCTATGGTGTCTGAAAGACA
 CAAAGGAGCAAGAGACCAGCCATGTGGAGAACAATGGTATTAATCCATACTGGGGGAGACTTTCTATTT
 CCGGCTCCAGGTACCTGAACTTGCTATGTTGCGTTTTGTGGTAAAGGATTATAGCAGGAAATCCCGAAAT
 AACTTTATTGGCCAATACACCCTACCTGGACCTGTATGAAACAAGGCTACCGACATGTATCCTTGCTCT
 CCAGAGATGGCACTAGCCTCAATCCAGCTTCCATCTTTGTATACACCTGCATGCAGGAAGACCTGGATAT
 GGATGAGCCCTGAGAAACACAGGGAGGGCCTTGAAGAACAATCTACAGATGCACAATCCTTTCAACCTA
 CAACTTCTCAAATCCAGAGCCAGCCAAAGGATCAATGAAGGATCAAGGTTGCCAGGCAAAGGTTGAGG
 AAGAATGCCTGACTCAAACTGTGACTCTAGAGAACAATGCACAGCCCTGAGACCCCACTGGACTGCTGC
 TCCTTAGCTGGTCTAAATAGAGCTTCTGTGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_001081456
- Insert Size:** 2328 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:	<ol style="list-style-type: none">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:	BC066156 , AAH66156
RefSeq Size:	2658 bp
RefSeq ORF:	2328 bp
Locus ID:	18802
UniProt ID:	Q8K3R3
Cytogenetics:	1 38.54 cM
Gene Summary:	<p>Hydrolyzes the phosphatidylinositol 4,5-bisphosphate (PIP2) to generate 2 second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). DAG mediates the activation of protein kinase C (PKC), while IP3 releases Ca(2+) from intracellular stores. Required for acrosome reaction in sperm during fertilization, probably by acting as an important enzyme for intracellular Ca(2+) mobilization in the zona pellucida-induced acrosome reaction. May play a role in cell growth. Modulates the liver regeneration in cooperation with nuclear PKC. Overexpression up-regulates the Erk signaling pathway and proliferation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter protein (isoform 1).</p>