

Product datasheet for **MC224181**

Plcg1 (NM_021280) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcg1 (NM_021280) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plcg1
Synonyms:	AI894140; Cded; Plc-1; Plc-gamma1; Plcg-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224181 representing NM_021280 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGGCGTCGCGACCCCTGCGCCAACGGCTGCGGGCCTGGCGCACCCCTCCGAAGCCGAGGTGCTGC
ACCTCTGCCGAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGAGCGGCCAGA
ACGGAAGACCTTCCAGGTCAGTTGGAGACGCGCCAGATCACATGGAGCCGCGGCCGACAAAATCGAG
GGGTCCATTGATATCCGAGAAATCAAGGAGATCCGTCCAGGGAAGACTTCTCGGGACTTTGACCGCTACC
AAGAAGACCCCTGCCTTCCGGCCAGATCAATCACACTGCTTTGTCATCCTCTATGGAATGGAATCCGCTT
GAAGACCCCTGAGCCTGCAAGCCACATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTA
ATGGAGGATACACTGCAGGCAGCCACACCCCTGCAAAATTGAGAGGTGGCTCCGGAAGCAGTTCTACTCAG
TGGATCGTAACCGAGAGGATCGTATATCAGCCAAGGACTTGAAGAACATGCTGTCTCAGGTCAACTACCG
AGTCCCAATATGCGCTTCTCCGAGAGCGGCTGACGGACCTTGAACAGCGCAGCGGGGACATCACCTAC
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AAACCAACGCTTTGAGGACTGGAGAGCGTCCGGAGCATTGCCAGGTGTCCCTTTCTGAGTCCAGCAGTT
CCTCCTTGAATACCAGGGGAGCTGTGGGCTGTGACCGGCTCCAGGTGCAGGAATTCATGCTCAGCTTC
CTTCGAGACCCCTTGCAGAGATTGAGGAGCCATACTTCTTCTTGGATGAGCTTGTACCTTCTGTTCT
CCAAAGAGAACAGCGTGTGAACTCACAGCTGGATGCTGTGTGCCGGACACCATGAACAACCCACTCTC
TCACTATTGGATCTCCTCCTCACATAATACGTACCTGACTGGGGACCAGTTCTCCAGTGAGTCTCCCTG
GAAGCCTATGCTCGCTGCCTGAGGATGGCTGTCGCTGCATTGAGTTGGACTGCTGGGATGGCCAGATG
GGATGCCAGTCATTTACCATGGGCACACTCTACCACCAAGATCAAGTTCTGTGACGTCTGCACACCAT
CAAGGAGCATGCTTTCGTAGCCTCAGAGTACCCAGTCATCCTGTCCATCGAGGACCACTGCAGCATTGCC
CAGCAGAGAAACATGGCTCAGCACTTCAGAAAGGTGCTTGCGGACACACTCCTTACCAAGCCTGTGGACA
TTGCTGCTGATGGCCTTCTTCTCCAACAGCTCAGGAGGAAGATCCTTATTAAGCACAAGAAGCTGGC
TGAGGGCAGTGCCTATGAGGAGGTGCCTACCTCTGTGATGTACTCCGAGAATGACATCAGTAACTCCATC
AAGAATGGTATCCTCTACTTGGAGGACCCGTAATCATGAGTGGTATCCCCACTACTTCTGTTCTGACTA



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GCAGCAAGATCTACTACTCTGAGGAGACCAGCAGTGACCAGGGCAATGAGGATGAAGAGGAGCCGAAGGA
 GGCCAGCAGCAGCACAGAGCTGCACTCGAGTGAGAAGTGGTTCCACGGGAAGCTCGGGGCTGGACGTGAC
 GGGCGGCACATTGCTGAGCGCCTGCTCACTGAGTACTGCATAGAGACTGGGGCTCCTGATGGCTCCTTCC
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 CTGCCGCATCCACTCCCGCAGGATGCTGGGACTCCTAAGTCTCTTACAGATAAACCTTGCTTTGAC
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 TCATATGCCATCTCTTTCCGGGCTGAGGAAAGATCAAGCACTGCCGAGTACAGCAGGAAGGCCAGACAG
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 CCGCAAAATGAAGCTACGCTACCCCATCAACGAGGAGGCACTGGAGAAGATCGGGACAGCTGAACCCGAT
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 GTGCGATAAAAGCCCTCTCGACTACAAGGCCAGAGAGAGGATGAGCTGACCTTACCAAGAGTGCCAT
 CATCCAGAATGTGAAAAGCAAGATGGTGGCTGGTGGCGAGGGGACTATGGTGGGAAGAAGCAGCTGTGG
 TTCCCCTCAAATATGTGGAAGAGATGATCAATCCAGCAGTCTAGAGCCTGAGAGGGAGCACCTGGATG
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 TGAGGGCAAAAACAACCGGCTCTTCGTCTTCTCCATCAGCATGCCATCAGTGGCTCAGTGGTCCCTGGAT
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 ATGCCAGGCTCACTGAGGGAAGATGATGGAGAGGAGGAAGAAGATCGCCTTGGAGCTCTCCGAGCTTGT
 GGTCTACTGCCGGCCCGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGCTTGTACCAGGACATG
 TCCTCCTTTCCGAAACCAAGGCTGAGAAGTATGTGAACAAGGCCAAAGGCAAGAAGTTCCTCCAGTACA
 ACCGGCTGCAGCTCTCGGCATCTACCCTAAGGGCCAGAGGCTAGACTCCTCAATTATGACCCTCTGCC
 CATGTGGATCTGCGGTAGCCAGCTTGTAGCACTCAATTTCCAGACCCAGACAAGCCTATGCAGATGAAC
 CAGGCCCTCTTTCATGGCTGGTGGCATTGTGGCTATGTGCTGCAGCCAAGCACCATGAGAGACGAAGCCT
 TTGACCCCTTTGATAAGAGCAGTCTCCGAGGTCTGGAACCCTGTGTCAATTTGATTGAGGTGCTGGGGC
 CAGGCATCTGCCAAGAATGGCCGGGATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGGGCTGAG
 TACGACAGCACCAAGCAAAGACGGAGTTGTAGTGGACAACGGACTGAACCCTGTGTGGCTGCTAAGC
 CCTTCCACTTCCAGATCAGTAACCCAGAGTTTGCCTTTCTGCGCTTTGTGGTGTATGAGGAAGACATGTT
 TAGTGACCAGAATCTTGGCTCAGGCTACTTTCCAGTAAAAGGCTGAAGACAGGATATAGAGCAGTG
 CCTTTGAAGAACAACACTACAGTGAAGACCTGGAGTTGGCCTCCCTGCTCATCAAGATTGACATTTCCCTG
 CTAAGGAGAACGGTGACCTCAGTCTTTTCAAGTGCATATCCCTAAGGGAACGGGCTCAGATGCCTCCAG
 CCAGCTGTTCCATGTCCGGGCCCGGAAGGGTCCCTTTGAAGCCAGATACCAGCAGCCATTTGAAGATTTT
 CGCATCTCGCAGGAGCATCTAGCAGACATTTTACAGTCCGGAACGAAGTACTTCAGATGGTCTCTCTCT
 CAGCCACTAACCTTATTGAGGATCCCTTACATGACAAGCTGTGGAAGTGTCTCTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_021280
- Insert Size:** 3909 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: [NM_021280.3](#), [NP_067255.2](#)

RefSeq Size: 4435 bp

RefSeq ORF: 3909 bp

Locus ID: 18803

UniProt ID: [Q62077](#)

Cytogenetics: 2 80.97 cM

Gene Summary: Mediates the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3). Plays an important role in the regulation of intracellular signaling cascades. Becomes activated in response to ligand-mediated activation of receptor-type tyrosine kinases, such as PDGFRA, PDGFRB, FGFR1, FGFR2, FGFR3 and FGFR4. Plays a role in actin reorganization and cell migration.[UniProtKB/Swiss-Prot Function]