

Product datasheet for **MC220110**

Plcz1 (NM_054066) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcz1 (NM_054066) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plcz1
Synonyms:	1700041H07Rik; PLCzeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220110 representing NM_054066
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGCCAACCTTCATGAGCTCGCAGAAGCAAGATGGTTTTGTCAAAGGTTCCAGGATGATTTTATAGAG
 GTGAAAAATCAACGTTGAAATTACTCACAACTGCTTGAGAACTTGATTTCCCATGCCACTTTGCTCA
 TGTGAAACATATTTTTAAGGAAAATGACAGACAGAACCAAGGAAGAATCACCATTTGAAGAGTTTAGAGCC
 ATTTACCGGTGATTGTACATAGAGAAGAAATCACGGAGATTTTCAACACGTATACTGAAAAATAGAAAA
 TTCTTTCTGAGAACAGTCTGATTGAGTTTCAACCAAGAGCAGTATGAAATGGAGATCGATCACTCTGA
 TTCAGTAGAGATCATCAATAAGTATGAGCCATTGAAGAAGTAAAGGGTGAGCGACAGATGTCAATTGAA
 GGTTTCGCAAGATACATGTTTTCATCAGAATGTCTACTGTTTAAAGAGAAGTGTAAAACCGTGTACCAAG
 ATATGAATCATCCATTAAGTGATTATTTTATTTTATCATCTCACAAACACATATTTGATATCCGATCAAT
 ATTTGGGACCGAGTGACATTTGGGGATATGTAAGTCTCTTGTGAAAGGCTGCCGCTGTCTGGAAATTGAC
 TGCTGGGATGGATCCCAAATGAACCCATTGTGTACCATGGTTACACATTCACCAGCAAGCTTCTCTTCA
 AAAGTGTGGTCCAAGCAATAAACAGTATGCCTTTGTGACATCTGATTACCCAGTAGTGCTGCCTTAGA
 AAATCACTGCTCCCTGGTCAAGCAAGTATGGCTAGCATTCTGCAGAGCACCTTTGGAGACTTCCTG
 CTTTCGGACATGCTTGAGGAGTTTCAGATACACTACCGTCTCCAGAGGCACTAAAATTCAAAATATTAG
 TGAAAAACAGGAAAGTGGGAACCTTATCTGAAACCCACGAGAGGATAGGAACCGACAAAAGTGGCCAAGT
 GCTAGAATGGAAGAAGTCACTATGAAGATGGTATGAAGACTCAGGAATGGATCCAGAAAATGGGAT
 GTCTTCTATCACGGATCAAGGAGGAGAGGGAAGCAGATCCCTCGACATTGAGTGAATAGCAGGCGTCA
 AGAAAAGGAAGGAAGATGAAAAATAGCCATGGCCTTATCTGATCTTGTCAATTTATACTAAGGCTGAGAA
 GTTCCGAAAATTTCAATATTCAAGAGTCTATCAGCAATTTAATGAGACCAATTCGATTGGAGAGTCTCGA
 GCTCGAAAATTTCAAATTTGAGAGTCCATGAGTTTTATTTCCACACCGCGCATTTCATCACCAGAGTAT
 ACCCCAAAATGATGAGAGCAGACTCTTCTAACTTTAACCCCTCAAGAGTTTTGGAATGTAGGATGTCAGAT
 GGTGGCCTTGAACCTTCAAACCCCTGGACTGCCTATGGATTTGCAAAACGGGAAATTTTTGGATAATGGA
 GGCTCTGGATATTTTTGAAGCCAGACATCCTTAGAGATACAACCCCTGGGCTTTAACCCAAATGAACCG
 AATATGACGACCATCCAGTTACCCTCACAAATCCGAATCATCAGTGGGATCCAGTTGCCTGTTAGCTCATC
 CTCTAACACGCCCTGACATAGTAGTATCATAGAAGTCTACGGTGTCCAAACGACCAGTGAAGCAGCAG
 ACTCGTGTGTTAAGAATAATGCTTTTAGTCCAAAGTGGAAATGAAACATTTACATTTCTTATTCAAGTGC
 CAGAACTGGCATTGATAGTTTTGTTGTTGAAACTCAACAAGGCTTATTATCAGGAAATGAATTACTCGG
 GCAGTACACTTTACCAGTTCTTTGCATGAACAAAGGTTATCGTCGTGTTCCCTCTGTTTTCCAAATCCGGT
 GCGAACCTTGAACCTTCCCTCACTGTTTTATTTATGTTTGGTACTTCAGAGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_054066
- Insert Size:** 1944 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_054066.4](#), [NP_473407.2](#)

RefSeq Size: 2182 bp

RefSeq ORF: 1944 bp

Locus ID: 114875

UniProt ID: [Q8K4D7](#)

Cytogenetics: 6 G2

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. In vitro, hydrolyzes PtdIns(4,5)P2 in a Ca(2+)-dependent manner. Triggers intracellular Ca(2+) oscillations in oocytes solely during M phase and is involved in inducing oocyte activation and initiating embryonic development up to the blastocyst stage. Is therefore a strong candidate for the egg-activating soluble sperm factor that is transferred from the sperm into the egg cytoplasm following gamete membrane fusion. May exert an inhibitory effect on phospholipase-C-coupled processes that depend on calcium ions and protein kinase C, including CFTR trafficking and function.[UniProtKB/Swiss-Prot Function]