

Product datasheet for **RN215649**

Plcz1 (NM_001012234) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcz1 (NM_001012234) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plcz1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN215649 representing NM_001012234
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGCCATTATGAGCTCGCAGAAGCAAGATGGTTTATGTCAAAGATTCAGGATTATTTAGAGGTG
 GAAAAATCAGCGCTGGAATTACTCACAACTGCTCGAGAACTTGATTTCCCATGCCATTTTGTCTATGT
 GAAACGTATTTTTAAGGAAAATGACAGACATAACCAAGGAAGAATCACCACCGAAGATTTTGAACCATC
 TATCGGTGATTGTACATAGAGAAGAGATCGTTGAGATTTTCAACACGTATACTGAAAACAGGAAAATTC
 TCCCCGAGGACAGTCTGATTGAATTTCTAACCCAGAGCAGTATGAAATGGAGATGGATGAGTCCAGTTC
 AGTGGAGATCATCCAGAAGTACGAGCCATTGCAGAAGTAAAGAACGAGCGGCAGATGTCAATTGAAGGT
 TTTGCAAGATACATGTTTTCTTCAGAATGTCTACTGTTTAAAGAGACGTGAACACAGTGTACCAAGATA
 TGAATAAGCCACTAAATGATTACTATATTTTCATCGTCTCACAAACACATATTTGATATCTGATCAAATATT
 GGGACCAAGTACATTTGGGGATATATAAGTGCCTCGTAAAGGCTGCCGCTGTCTGAAAATTGACTGC
 TGGGATGGAGCAGAAAATGAACCCATTGTGTACCATGGCTACACTCTCACCAGCAAGCTTCTCTTCAAAA
 CCGTTATCCAAGCAATAACAAGTACGCCCTTCGTGACGTCTGATTACCCAGTGGTGTCTCTTAGAGAA
 TCACTGCTCCCCTGGTCAACAGGAAGTGTGACCGACATTCTGCAGAGTACCTTTGGAGACTTTCTGCTC
 TCAGACATACTTGACGAGTTTCCAGACAGTTTGCATCTCCAGAGGCACTAAAATTCAAAATATTAGTGA
 AAAATAAGAAAGTTGAAACCTTATCTGAAACCCGCGAGAGGCTGGGGACTGACAAAAGGGGCATAGCGCT
 AGACTTGGAAAGAAATCTATGAAAATGAAGACGAAGACTCAGGAAAGGAGCCAGAAACGTGGGATGAT
 TTCTGTACGGGTTAAGGAGGAGCAGGAGGCAGACCCCTCAACGTTGAGCGGAATAGCAGATGCCAAGA
 AAAAGATCAGGAAGCTAAGAGTAGCTCTGGCCTTATCTGATCTTGTCAATTTATACCAAAGCTGAGAAGTT
 CCGAAACTTCCAATATTCAAGAGTCTATCAGCAGTTAATGAGACCACTTCTATGGGAGAGTCTCGAGCT
 CGAAAACCTTCAAAATTGAGAGCCCATGAGTTTATTTTCCACACTGCAGCGTTTCATCACCAGAGTGTACC
 CCAAGTTCACGAGAGCAGACTCTTCTAATTTTAACTCCTCAAGAGTTTGGAAATGTGGGCTGTGAGATGGT
 GGCCTTGAATTTTCAAACCCCTGGACTGCCTATGGATTTGCAAAACGGGAAATTTTGGATAATGGAGGC
 TCTGGATATGTTTTGAAGCCAGACTTTCTTAGAGACACAACCTTTGGGCTTTAACCCAAATGAACCAGAAG
 GAGATGGCCATCCGGTTACCTCAGATCCGACTCATCAGTGGGATCCAGTTGCCTGTAAACGTGCCCTC
 AAATACATCTGACATAATAGTGATCATAGAAGTCTACGGTGTCCCAAACGACCACATGAAGCAGCAGAGT
 CGTGCCGTTAAGAACAATGCTTTTAGTCCAAGGTGGAATGAAACATTACATTTCTTATTCAAGTGCCAG
 AATTGGCACTGATACGTTTTCGTTGTTGAAACTCAAGGCTTCTATCGGGAAATGAATTACTTGGGCAAGTA
 CACTTTACCCGTTCTTTGCATGAACAAAGGTTATCGTCGCGTTCTCTGTGTTTTCAAATCCGGTGCGAAC
 CTTGAACCTTCTCTCTGTTATTTACGTTTGGTACTACAGAGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001012234
- Insert Size:** 1938 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_001012234.1](#), [NP_001012234.1](#)

RefSeq Size: 1938 bp

RefSeq ORF: 1938 bp

Locus ID: 497197

UniProt ID: [Q5FX52](#)

Cytogenetics: 4q44

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]