

## Product datasheet for MC225255

### Plce1 (NM\_019588) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Plce1 (NM\_019588) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Plce1  
**Synonyms:** 4933403A21Rik; mKIAA1516; Plce; PLCepsilon  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225255 representing NM\_019588  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGACGTGCGAAGAAATGGCCGCTTCTGTCTCATCCCTGTGACTCAAAGGAAAGTGGCTTCTGCCAGT  
 CGGTGGCAGAAGAGAGGAGTGTAAAGTCTCAGATGCGGGGATTCTCGGCACGTGCTGGCAGGCAGGG  
 TGGCTCATCCCTCCTACCATCTCACAGTGAACAACATAAGGAAGAGTCGTCTAGAAGTGATTTGTCC  
 AAGGTCTTCTCAATAGCGAGGGGGAACTAGTCTGCGATGAGAATTCACGAAGAGGGCTGGGAGGAAA  
 ACGCACCGGACTCCCCGAAAACACCGCATGAACGGCAACAGTTTGTGCAAAAGCCACCAGCACCAGTT  
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GAATCAGCAAGGAGCTGATTGATCTCCAGCCCCTCATTAGTTCCCGGAGGAAGTAGCCAGCATCTTAAC  
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 GACCTTATGCAAAGCCAAATATTCCTACAGCATCTGAACAACCCCAACCCATGTGACTATGTGCTTTTG  
 GAAGAGGTGCTGAAAGATGCAGCTAATAAGAAGTCTTCTACCCCAAAGTCTCGCAGAGGATCCTCTTGG  
 ACCAAGAATGTGTGTTTCAAGCGCAAAGCAAGTGAAGGGTCCGGGAAAGTTCATACTTAAGCTAAAGGA  
 GCAGGTGCAGGCATCCCAGAGAAGACAAAAGGAGGGTATCTCCTTGAAGTGAAGTCAAGAGCTCACT  
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 AGGAGGAGAAAACCTGTGGGTGCCTTGTCTCTAGTGACACAGTGGGTTACCAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

**ACCN:**

NM\_019588

**Insert Size:**

6849 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\_019588.2, NP\_062534.2

**RefSeq Size:**

9525 bp

RefSeq ORF: 6849 bp

Locus ID: 74055

UniProt ID: [Q8K4S1](#)

Cytogenetics: 19 C3

**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. PLCE1 is a bifunctional enzyme which also regulates small GTPases of the Ras superfamily through its Ras guanine-exchange factor (RasGEF) activity. As an effector of heterotrimeric and small G-protein, it may play a role in cell survival, cell growth, actin organization and T-cell activation.[UniProtKB/Swiss-Prot Function]