

Product datasheet for **MC223161**

Plch1 (NM_001177732) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plch1 (NM_001177732) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plch1
Synonyms: BC042549; PLC-eta-1; PLCeta1; Plcl3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223161 representing NM_001177732
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGACCTTGAAGTGTATAAAAACCTAAGTCCAGAAAAGTTGAAAGATGCATGAGTGAATGCAGT
 CCGGGACACAGATGATCAAACCTGAAGCGTGGCACCAAAGGGCTCGTTCGCCTCTTTACCTGGATGAGCA
 CCGGACCCGCCTCCGATGGCGACCTCTCGGAAGAGTGAGAAGGCAAAAATACTTATTGACTCCATCTAC
 AAAGTCACCGAGGGCAGGCAGTCTGAAATATTCCACAGACAGGCTGAGGGGAACTTTGACCTAGCTGCT
 GCTTTACCATCTACCATGGCAACCACATGGAGTCTCTGGACCTCATTACCTCCAACCCAGAGGAGGCACG
 CACCTGGATCACGGGCCTCAAGTATCTGATGGCTGGCATCAGTGAAGACTCCCTTGCCAAGAGGCAG
 AGGACCCATGACCAATGGGTGAAGCAGACCTTTGAGGAAGCTGATAAGAACGGTATGGCTTATTGAATA
 TTGAAGAGATTCACCAGCTGATGCATAAACTAAATGTCAATCTGCCCCGAGAAAAGTCAGGCAAAATGTT
 TCAGGAAGCAGATACAGATGAGAATCAGGGAACCTTGACATTTGAAGAGTTCTGCGTTTTTACAAAATG
 ATGTCATTGAGACGAGACCTCTATTTGCTGCTCTTGAGCTACAGTGACAAGAAAGACCACCTGACTGTGG
 AGGAGCTGGCTCAGTTTTTGAAGTGAACAAAAGATGAGTAATGTGACACTGGACTATTGTCTTGACAT
 CATAATGAAGTTTTGAAGTTTCTGAAGAAAACAAAGTGA AAAACGTCCTTGGTATAGAAGGCTTCACGAAAC
 TTCATGCGTAGCCCTGCCTGTGACGTATTTAACCCGTTGCACCATGAAGTGTACCAAGACATGGATCAGC
 CCCTGTGCAACTACTACATTGCTTCATCTCACAACACATACCTGACTGGGGATCAGCTCCTTTCTCAATC
 TAAAGTGGATATGTATGCACGGGTGCTACAAGAGGGTTGTAGATGCGTGGAAAGTTGACTGTTGGGATGGC
 CCAGATGGAGAGCCAGTGGTCCACCATGGTTATACTCTCACTTCAAAAATCTCTTCAGAGATGTTGTGG
 AGACCATCAACAAGCATGCATTCGTGAAGAATGAGTTCCTGGTTATCCTGTCCATTGAGAACCCTGCAG
 CATTGAGCAGCAGAGGAAGATTGCTCAGTACCTGAAAGGTATATTGCAGGACAACTGGACCTGTCTTCT
 GTAGACACCGGAGAGTGCAGGCAGCTTCCAAGCCCTCAGAGTCTGAAAGGCAAAAATCCTAGTGAAGGGCA
 AGAAGTTGCCGTATCACCTTGGGGATGATGCAGAGGAAGGAGAAGTGTCCGATGAGGACAGTGCAGATGA
 GATTGAAGATGAGTGAAGTTCAAGCTGCATTACAGTAACGGGACCCTGAGCACCAGGTAGAATCTTTCT
 ATACGGAAAAGCTGGAGTCACTGTTGAAGGAGTCTCAGATTCGAGACAAAAGAAGATCCAGACAGTTTCA



[View online >](#)

CAGTGAGGGCGTTACTCAAGGCTACACATGAAGGCTTAAATGCACACCTGAAGCAGAACCTGGATGTAAA
 GGAAAGTGGAAAGAAGTCCCATGGGCGATCCCTGATGGCCAACCTTGGGAAACACAAGCAGAAAGCTACG
 AAATCACGTTCTAAATCCTATAGTACTGATGATGAGGATGATAGCCTTCAGAATCCTGGCAAGGAGGGAG
 GCCAGCTGTACAGGCTGGGCCCGGAAGGAGAACCATGAAACTCTGCAGAGAGCTCTCGGACTTGGTGGT
 GTACACAAACTCCGTGGCAGCCAGGATATTGTTGATGATGGAACCACAGGGAATGTGTTGCCTTCAGC
 GAAACAAGAGCCCATCAAGTGGTTCAGCAGAAGTCAGAGCAGTTTCATGATCTACAACCAAAAACAGCTCA
 CAAGGATTTACCCCTCTGCCTACCGCATCGATTCCAGTAACTTCAACCCACTGCCCTACTGGAATGCAGG
 CTGCCAGCTCGTGGCTCTGAACTACCAGTCTGAAGGGCGAATGATGCAGATCAATCGAGCAAAATTCAGG
 GCGAATGGCAACTGTGGCTATATTCTCAAGCCCCAGCAAATGTGCAAAGTACTTTCAACCCTTTCTCTG
 GTGACCCACTTCTGCCAACCCAAAAACAGCTCATACTGAAAGTGATCAGTGGACAGCAACTCCCCAA
 ACCTCCTGACTCTATGTTGGAGACCGAGGCGAGATCATTGACCCCTTTCGTTGAAGTTGAAATTATTGGG
 CTGCCAGTAGACTGTTGCAAGGACCAAACTCGTGTGGTGGATGACAACGGATTTAACCTGTGTGGGAAG
 AAACCCTAACTTTACAGTTCACATGCCAGAAATAGCTTTGGTTCGGTTCCTTGTGTGGGATCATGATCC
 TATTGGAAGAGACTTTGTCGGACAAAGGACTGTGACCTTCAGTAGCCTCGTGCCCGGCTACCGGCATGTC
 TACCTGGAAGGACTCACAGAAGCATCTATTTTCGTTTACATAACCATCAATGAGATCTTTGAAAGTGGAA
 GTCTTTAATCCTCAACCCAGTTATACCATATTGCACCTTCTAGGAGCTACAAAGAACAGACAGCTCCA
 AGGCCTGAAGGGGCTGTTCAATAAGAATCCCAGGCACGCTTCTTCAAGAAAACAACCTCGCATTATGTTCCG
 AAGCGATCGATTGGAGATAGGATTCTGCGACGTACAGCTAGTGCTCCAGCCAAAGGCAGGAAAAAGAGCA
 AAGTGGGCTTCCAAGAAATGGTTGAGATAAAAGATTCTGTCTCTGAGGCTTCAAGAGATCAAGATGGTGT
 CCTGAGGAGGACCACCCGGAGTCTGCAAGTACGCCCTGTCTCTATGCCTGTTGACAAGAGCCTTCTGGGG
 GCTTTGTCTGCTGCCCATATCTGAAGCAGCAAAAGACACGGATGGAAAAGAAAAGTGTCTGGTACAGATCT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001177732
- Insert Size:** 3012 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_001177732.1, NP_001171203.1
- RefSeq Size:** 6294 bp
- RefSeq ORF:** 3012 bp

Locus ID: 269437

UniProt ID: [Q4KWH5](#)

Cytogenetics: 3 E1

Gene Summary: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by calcium-activated phosphatidylinositol-specific phospholipase C enzymes.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3, also known as PLC-eta1a) differs in the 3' UTR and includes an alternate exon that causes a frameshift in the 3' coding region, compared to variant 1. This results in an isoform (3, also known as phospholipase C-eta1a) that has a shorter and distinct C-terminus, compared to isoform 1.