

## Product datasheet for **MC224810**

### Plch1 (NM\_183191) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Plch1 (NM\_183191) 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:** >MC224810 representing NM\_183191  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGACCTTGAAGTGTATAAAAACCTAAGTCCAGAAAAGTTGAAAGATGCATGAGTGAATGCAGT  
 CCGGGACACAGATGATCAAACCTGAAGCGTGGCACCAAAGGGCTCGTTCGCCTCTTTACCTGGATGAGCA  
 CCGGACCCGCCTCCGATGGCGACCTCTCGGAAGAGTGAGAAGGCAAAAATACTTATTGACTCCATCTAC  
 AAAGTCACCGAGGGCAGGCAGTCTGAAATATTCCACAGACAGGCTGAGGGGAACTTTGACCTAGCTGCT  
 GCTTTACCATCTACCATGGCAACCACATGGAGTCTCTGGACCTCATTACCTCCAACCCAGAGGAGGCACG  
 CACCTGGATCACGGGCTCAAGTATCTGATGGCTGGCATCAGTGAAGACTCCCTTGCCAAGAGGCAG  
 AGGACCCATGACCAATGGGTGAAGCAGACCTTTGAGGAAGCTGATAAGAACGGTGAAGCTTATTGAATA  
 TTGAAGAGATTCACCAGCTGATGCATAAACTAAATGTCAATCTGCCCCGAGAAAAGTCAGGCAAAATGTT  
 TCAGGAAGCAGATACAGATGAGAATCAGGGAACCTTGACATTTGAAGAGTTCTGCGTTTTTACAAAATG  
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 AGGAGCTGGCTCAGTTTTTGAAGTGAACAAAAGATGAGTAATGTGACACTGGACTATTGTCTTGACAT  
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 CCCTGTGCAACTACTACATTGCTTCATCTCACAACACATACCTGACTGGGGATCAGCTCCTTTCTCAATC  
 TAAAGTGGATATGTATGCACGGGTGCTACAAGAGGGTTGTAGATGCGTGGAAAGTTGACTGTTGGGATGGC  
 CCAGATGGAGAGCCAGTGGTCCACCATGGTTATACTCTCACTTCAAAAATCTCTTCAGAGATGTTGTGG  
 AGACCATCAACAAGCATGCATTCGTGAAGAATGAGTTCCTGGTTATCCTGTCCATTGAGAACCCTGCAG  
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 GATTGAAGATGAGTGAAGTTCAAGCTGCATTACAGTAACGGGACCCTGAGCACCAGGTAGAATCTTTCT  
 ATACGGAAAAGCTGGAGTCACTGTTGAAGGAGTCTCAGATTCGAGACAAAAGAAGATCCAGACAGTTTCA



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CAGTGAGGGCGTTACTCAAGGCTACACATGAAGGCTTAAATGCACACCTGAAGCAGAACCTGGATGTAAA  
 GGAAAGTGGAAAGAAGTCCCATGGGCGATCCCTGATGGCCAACCTTTGGGAAACACAAGCAGAAAGCTACG  
 AAATCACGTTCTAAATCCTATAGTACTGATGATGAGGATGATAGCCTTCAGAATCCTGGCAAGGAGGGAG  
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 GTACACAAACTCCGTGGCAGCCCAGGATATTGTTGATGATGGAACCACAGGGAATGTGTTGTCCTTCAGC  
 GAAACAAGAGCCCATCAAGTGGTTCAGCAGAAGTCAGAGCAGTTCATGATCTACAACCAAAAACAGCTCA  
 CAAGGATTTACCCCTCTGCCTACCGCATCGATTCCAGTAACTTCAACCCACTGCCCTACTGGAATGCAGG  
 CTGCCAGCTCGTGGCTCTGAACTACCGAGTCTGAAGGGCGAATGATGCAGATCAATCGAGCAAAATTC AAG  
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 CTCTCCTCCAGTGCCTCTCCACAAAGATGCCAACCAAGGGCAACTGCCAGTGTATCAAAACCAGAA  
 CAGTGTGGAGGACGAGGTGCAAAGAGTGAGAGGATCAAACCAAATATGACAAATGATTGCCAGGAAACCC  
 ACAATCCCCGAAATTCCTTTCTCAAGGAAGCATTGGCTCTGGATCCTGCAACGAAGGACTGCAAGA  
 GAGACTGCATGGAATGAAAACCAATGAGAAGGAGCATGCCGAGGGCTTCTGGGAGAGAAAAGCATGCTG  
 TCCGGAAGCGTCTTTCTCAAAGTTCTCTGAGGAGTAGAGAACCTGGAAGGCAGCAGAGCCAAAGGCAGAG  
 CTGCAACCTCCTTTCTCTCGGACGTCTCCGCGCTCTGTTCTGACATCCCTGATTTACATTCAACTGC  
 CATTCTACAGGACTGAAATTTCCAATCTCATTGATGACGTGACTTTAACAAATGAGAATCAGTCGGGA  
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 GAACCAGAAGGCCTCCTTCTGTGCTCATCTCCTGAGCTGAATAAGCTCTCTAGTGTGAGACCACCAAA  
 CTGGCAAATAACGCAGTTCCTTGTGGAGTGATTGGTTCTCCCATCTCTACACCAAGCCAGGTGATGACC  
 CTTGAGATAAGGCCAAGACAAGAGTCAATGAAGGCAACCTGCCTGGGTTCCCTGATGCTTCTCCTGGTCA  
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 TTGGCCATAGAAGATAAATTGCAGACCCTGCTCTCTATAAATTTGCAAGAAAGCAGTCTTGTGGAAA  
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 TTCTCCACTAAAAGTGCAGCAGAGCCAGGAGATGGTGAACACATTTCAGAGGGGCTTGGGAATGGCTAC  
 TGTAAGAGACTCTCCTCCTTTGAAATATTCAACAATATTCCAGGTGTCAAAAATCACAGTATTTCTC  
 ATCTAACCTATCAGGGTGTGGCTTTGTGTATAACCATTTCTCAAGTTCAGATGCAAAAACGAACCAAAT  
 CTGTGAGCCCCAGCAGCTAGGGCTCCAGATATGCATGCCCTACACCTACACCTCAACACATGCTCCT  
 TTGGTGTCTTTGAAACTGCCAAGCCATGCAAATCCAAAAGTCTGGGGGACTTAACATCAGAGGACATTG  
 CCTGCAATTTTGAAGCAAAATCAATGTATTAGTAGGAGCTTTGTGACAAACGGCATTAGGGACAAGAG  
 CGTGACTATGAAGACAAAGTCATTAGAGCCTTTAGACGCCCTGACTGAACAGCTCCGGAAGCTGGTGTCC  
 TTTGACCAAGAAGACAGCTGTCAAGTGTCTACTCAAAGCAGGATGTCAATCAGTGTCCAGGGCATTAG  
 TCAGAAAGTTGTCGTCTAGAAGTCAGAGCAGAGTGCACCAACATTGCTAGCCGTGCCAAGGAGAAGCAGGA  
 AGCTGGCAAGCAAAAAGCTATGGCCAGAGCACCAGAGGAGGAGTGGTCTTAGAAGTAAACCGCCCGCT  
 CCTGCTCTGGCCGTGAACCGTCACTCCACGGGCTCATACATTGCAAGCTACCTGAGGAACATGAAAGCTG  
 GTGGCCTAGAGGGTGCAGGCATCCAGAGGGAGCGTGCACGGCCCTTCGCTATGGCTACATGGACCAGTT  
 TTGTTGAGATAATTCAGTTCTGCAGACTGAGCCAAGCAGCGAAGATAAACCCGAAATTTATTTCTTTTG  
 AGGCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_183191
<b>Insert Size:</b>	5049 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_183191.3</a></u> , <u><a href="#">NP_899014.2</a></u>
<b>RefSeq Size:</b>	6266 bp
<b>RefSeq ORF:</b>	5049 bp
<b>Locus ID:</b>	269437
<b>UniProt ID:</b>	<u><a href="#">Q4KWH5</a></u>
<b>Cytogenetics:</b>	3 E1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1, also known as PLC-eta1c) encodes the longest isoform (1, also known as phospholipase C-eta1c). CCDS Note: The coding region has been updated to represent an alternate splice pattern that is more supported by the available conservation, transcript and protein data. The update changes the protein length from 1640 aa to 1682 aa.</p>