

Product datasheet for MC223461

Plch1 (NM_001177733) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plch1 (NM_001177733) 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:	>MC223461 representing NM_001177733 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGACCTTGAAGTGTATAAAAACCTTAAGTCCAGAAAAGTTGAAAGATGCATGAGTGAATGCAGT
CCGGGACACAGATGATCAAACCTGAAGCGTGGCACCAAAGGGCTCGTTCGCCTCTTTACCTGGATGAGCA
CCGGACCCGCCTCCGATGGCGACCTCTCGGAAGAGTGAGAAGGCAAAAATACTTATTGACTCCATCTAC
AAAGTCACCGAGGGCAGGCAGTCTGAAATATTCCACAGACAGGCTGAGGGGAACTTTGACCTAGCTGCT
GCTTTACCATCTACCATGGCAACCACATGGAGTCTCTGGACCTCATTACCTCCAACCCAGAGGAGGCACG
CACCTGGATCACGGGCTCAAGTATCTGATGGCTGGCATCAGTGAAGACTCCCTTGCCAAGAGGCAG
AGGACCCATGACCAATGGGTGAAGCAGACCTTTGAGGAAGCTGATAAGAACGGTATGGCTTATTGAATA
TTGAAGAGATTCACCAGCTGATGCATAAACTAAATGTCAATCTGCCCCGAGAAAAGTCAGGCAAAATGTT
TCAGGAAGCAGATACAGATGAGAATCAGGGAACCTTGACATTTGAAGAGTTCTGCGTTTTTACAAAATG
ATGTCATTGAGACGAGACCTCTATTTGCTGCTCTTGAGCTACAGTGACAAGAAAGACCCTGACTGTGG
AGGAGCTGGCTCAGTTTTTGAAGTGAACAAAAGATGAGTAATGTGACACTGGACTATTGTCTTGACAT
CATAATGAAGTTTTGAAGTTTCTGAAGAAAACAAAGTGAAAAACGTCCTTGGTATAGAAGGCTTCACGAAC
TTCATGCGTAGCCCTGCCTGTGACGTATTTAACCCGTTGCACCATGAAGTGTACCAAGACATGGATCAGC
CCCTGTGCAACTACTACATTGCTTCATCTCACAACACATACCTGACTGGGGATCAGCTCCTTTCTCAATC
TAAAGTGGATATGTATGCACGGGTGCTACAAGAGGGTTGTAGATGCGTGGAAAGTTGACTGTTGGGATGGC
CCAGATGGAGAGCCAGTGGTCCACCATGGTTATACTCTCACTTCAAAAATCTCTTCAGAGATGTTGTGG
AGACCATCAACAAGCATGCATTCGTGAAGAATGAGTTCCTGGTTATCCTGTCCATTGAGAACCCTGCAG
CATTTCAGCAGCAGAGGAAGATTGCTCAGTACCTGAAAGGTATATTGCAGGACAACTGGACCTGTCTTCT
GTAGACACCGGAGAGTGCAGGCAGCTTCCAAGCCCTCAGAGTCTGAAAGGCAAAAATCCTAGTGAAGGGCA
AGAAGTTGCCGTATCACCTTGGGGATGATGCAGAGGAAGGAGAAGTGTCCGATGAGGACAGTGCAGATGA
GATTGAAGATGAGTGAAGTTCAAGCTGCATTACAGTAACGGGACCCTGAGCACCAGGTAGAATCTTTC
ATACGGAAAAGCTGGAGTCACTGTTGAAGGAGTCTCAGATTCGAGACAAAAGAAGATCCAGACAGTTTCA



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CAGTGAGGGCGTTACTCAAGGCTACACATGAAGGCTTAAATGCACACCTGAAGCAGAACCTGGATGTAAA
 GGAAAGTGGAAAGAAGTCCCATGGGCGATCCCTGATGGCCAACCTTTGGGAAACACAAGCAGAAAGCTACG
 AAATCACGTTCTAAATCCTATAGTACTGATGATGAGGATGATAGCCTTCAGAATCCTGGCAAGGAGGGAG
 GCCAGTGTACAGGCTGGGCCGCGAAGGAGAACCATGAAACTCTGCAGAGAGCTCTCGGACTTGGTGGT
 GTACACAAACTCCGTGGCAGCCAGGATATTGTTGATGATGGAACCACAGGGAATGTGTTGTCCTTCAGC
 GAAACAAGAGCCCATCAAGTGGTTCAGCAGAAGTCAGAGCAGTTCATGATCTACAACCAAAAACAGCTCA
 CAAGGATTTACCCCTCTGCCTACCGCATCGATTCCAGTAACTTCAACCCACTGCCCTACTGGAATGCAGG
 CTGCCAGCTCGTGGCTCTGAACTACCGTCTGAAAGGCGAATGATGCAGATCAATCGAGCAAAATTCAGG
 GCGAATGGCAACTGTGGCTATATTCTCAAGCCCAGCAAATGTGCAAAGTACTTTCAACCCCTTCTCTG
 GTGACCCACTTCTGCCAACCCAAAAACAGCTCATACTGAAAGTATCAGTGGACAGCAACTCCCCAA
 ACCTCCTGACTCTATGTTGGAGACCGAGGCGAGATCATTGACCCCTTTCGTTGAAGTTGAAATTATTGGG
 CTGCCAGTAGACTGTTGCAAGGACCAAACTCGTGTGGTGGATGACAACGGATTTAACCTGTGTGGGAAG
 AAACCCTAACTTTACAGTTCACATGCCAGAAATAGCTTTGGTTCGGTTCCTTGTGTGGGATCATGATCC
 TATTGGAAGAGACTTTGTCGGACAAAGGACTGTGACCTTCAGTAGCCTCGTGCCCGGCTACCGGCATGTC
 TACCTGGAAGGACTCACAGAAGCATCTATTTTCGTTACATAACCATCAATGAGATCTTTGAAAGTGGA
 GTCCTTTAATCCTCAACCCAGTTATACCATATTGCACTTTCTAGGAGCTACAAAGAACAGACAGCTCCA
 AGGCCTGAAGGGGCTGTTCAATAAGAATCCCAGGCACGCTTCTTCAGAAAACAACCTCGCATTATGTTCCG
 AAGCGATCGATTGGAGATAGGATTCTGCGACGTACAGCTAGTGTCCAGCCAAAGGCAGGAAAAAGAGCA
 AAGTGGGCTTCCAAGAAATGGTTGAGATAAAAGATTCTGTCTCTGAGGCTTCAAGAGATCAAGATGGTGT
 CCTGAGGAGGACCACCCGGAGTCTGCAAGTACGCCCTGTCTCTATGCCTGTTGACAAGAGCCTTCTGGGG
 GCTTTGTGCTGCCCATATCTGAAGCAGCAAAAGACACGGATGGAAAAGAAAAGTGTCTGGATCTGAATA
 GGAAGCAGCGCAAGCAGGAGACAAGGATGACAGAAGAAAGGGAGCCGCAACTAGAAAAGACCCACATTTT
 TCAAATTTCAACAAAAAGTTATCCTCCTCCTCCAGTGCCTCCTCCACAAGATGCCAACCAAGGGCCAA
 CTGCCAGTGTATCAAACCCAGAACAGTGTGGAGACGAGGTGCAAAGAGTGAGAGGATCAAACCAAAATAT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001177733

Insert Size:

3222 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_001177733.1](#), [NP_001171204.1](#)

RefSeq Size: 6289 bp

RefSeq ORF: 3222 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 (2, also known as PLC-eta1b) includes an alternate exon that causes a frameshift in the 3' coding region, compared to variant 1. This results in an isoform (2, also known as phospholipase C-eta1b) that has a shorter and distinct C-terminus, compared to isoform 1.