

## Product datasheet for MR220515

### Plch1 (NM\_001177732) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plch1 (NM_001177732) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plch1
Synonyms:	BC042549; PLC-eta-1; PLCeta1; Plcl3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR220515 representing NM_001177732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCAGACCTTGAAGTGTATAAAAACCTAAGTCCAGAAAAGTTGAAAGATGCATGAGTGAATGCAGT  
CCGGGACACAGATGATCAAACCTGAAGCGTGGCACCAAAGGGCTCGTTCGCCTCTTTACCTGGATGAGCA  
CCGGACCCGCCTCCGATGGCGACCTCTCGGAAGAGTGAGAAGGCAAAAATACTTATTGACTCCATCTAC  
AAAGTCACCGAGGGCAGGCAGTCTGAAATATTCCACAGACAGGCTGAGGGGAACTTTGACCTAGCTGCT  
GCTTTACCATCTACCATGGCAACCACATGGAGTCTCTGGACCTCATTACCTCCAACCCAGAGGAGGCACG  
CACCTGGATCACGGGCTCAAGTATCTGATGGCTGGCATCAGTGAAGACTCCCTTGCCAAGAGGCAG  
AGGACCCATGACCAATGGGTGAAGCAGACCTTTGAGGAAGCTGATAAGAACGGTATGGCTTATTGAATA  
TTGAAGAGATTCACCAGCTGATGCATAAACTAAATGTCAATCTGCCCCGCAAAAAGTCAGGCAAAATGTT  
TCAGGAAGCAGATACAGATGAGAATCAGGGAACCTTGACATTTGAAGAGTTCTGCGTTTTTACAAAATG  
ATGTCATTGAGACGAGACCTCTATTTGCTGCTCTTGAGCTACAGTGACAAGAAAGACCACCTGACTGTGG  
AGGAGCTGGCTCAGTTTTTGAAGTGAACAAAAGATGAGTAATGTGACACTGGACTATTGTCTTGACAT  
CATAATGAAGTTTTGAAGTTTCTGAAGAAAACAAAGTGA AAAACGTCCTTGGTATAGAAGGCTTCACGAAC  
TTCATGCGTAGCCCTGCCTGTGACGTATTTAACCCGTTGCACCATGAAGTGTACCAAGACATGGATCAGC  
CCCTGTGCAACTACTACATTGCTTCATCTCACAACACATACCTGACTGGGGATCAGCTCCTTTCTCAATC  
TAAAGTGGATATGTATGCACGGGTGCTACAAGAGGGTTGTAGATGCGTGGAAAGTTGACTGTTGGGATGGC  
CCAGATGGAGAGCCAGTGGTCCACCATGGTTATACTCTCACTTCAAAAATCTCTTCAGAGATGTTGTGG  
AGACCATCAACAAGCATGCATTCGTGAAGAATGAGTTCGGTATCCTGTCCATTGAGAACCCTGCAG  
CATTGAGCAGCAGAGGAAGATTGCTCAGTACCTGAAAGGTATATTGCAGGACAACTGGACCTGTCTTCT  
GTAGACACCGGAGAGTGCAGGCAGCTTCCAAGCCCTCAGAGTCTGAAAGGCAAAAATCCTAGTGAAGGGCA  
AGAAGTTGCCGTATCACCTTGGGGATGATGCAGAGGAAGGAGAAGTGTCCGATGAGGACAGTGCAGATGA  
GATTGAAGATGAGTGAAGTTCAAGCTGCATTACAGTAACGGGACCCTGAGCACCAGGTAGAATCTTTC  
ATACGGAAAAGCTGGAGTCACTGTTGAAGGAGTCTCAGATTCGAGACAAAAGAAGATCCAGACAGTTTCA



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CAGTGAGGGCGTTACTCAAGGCTACACATGAAGGCTTAAATGCACACCTGAAGCAGAACCTGGATGTAAA  
 GGAAAGTGGAAAGAAGTCCCATGGGCGATCCCTGATGGCCAACCTTTGGGAAACACAAGCAGAAAGCTACG  
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 GTCCTTTAATCCTCAACCCAGTTATACCATATTGCACCTTCTAGGAGCTACAAAGAAGCAGACAGCTCCA  
 AGGCTGAAGGGGCTGTTCAATAAGAATCCCAGGCACGCTTCTTCAAGAAAACAACTCGCATTATGTTCCGG  
 AAGCGATCGATTGGAGATAGGATTCTGCGACGTACAGCTAGTGTCCAGCCAAAGGCAGGAAAAAGAGCA  
 AAGTGGGCTTCCAAGAAATGGTTGAGATAAAAGATTCTGTCTCTGAGGCTTCAAGAGATCAAGATGGTGT  
 CCTGAGGAGGACCACCCGGAGTCTGCAAGTACGCCCTGTCTCTATGCCTGTTGACAAGAGCCTTCTGGGG  
 GCTTTGTCGCTGCCCATATCTGAAGCAGCAAAAGACACGGATGGAAAAGAAAAGTGTCTGGTACAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220515 representing NM\_001177732  
 Red=Cloning site Green=Tags(s)

MADLEVYKNLSPEKVERCMSVMQSGTQMIKLRGTKGLVRLFYLDEHRTLRLWRPSPRKSEKAKILIDSIY  
 KVTEGRQSEIFHRQAEGNFDPSCCFTIYHGNHMESLIDLITSNPEEARTWITGLKYL MAGISDEDSLAKRQ  
 RTHDQWVKQTFEEADKNGDGLLNIEEIHQLMHKLNVNLP RRKVRQMFQEADTDENQGLTFEEFCV FYKM  
 MSLRRDL YLLLLSYSDKKDHLTVEELAQFLKVEQKMSNVTLDYCLDIIMKFEVSEENKVKNVLGIEGFTN  
 FMRSPACDVFNPLHHEVYQDMDQPLCNYYIASSHNTYLTGDQLLSQSKVDMYARVLQEGCRCVEVDCWDG  
 PDGEPVVHHGYLTLSKILFRDVVETINKHAFVKNEFPVILSIENHCSIQQQRKIAQYLK GILQDKLDLSS  
 VDTGECRQLPSPQLK GKILVKGKLPYHLGDDAEEGEVSDSDADEIEDECKFKLHYSNGTTEHQVESF  
 IRKKLESLLKESQIRDKEDPDSFTVRALLKATHEGLNAHLKQNL DVKESGKSHGRSLMANFGKHKQKAT  
 KSRSKSYSTDDEDSLQNP GKEGGQLYRLGRRRTMKLCRELSDLV VYTNSVAAQDIVDDGTTGNVLSFS  
 ETRAHQVVQKSEQFM IYNQQLTRIYPSAYRIDSSNFNPLPYWNAGCQLVALNYQSEGRMMQINRAKFK  
 ANGNCGYILKPQMQCKGTFNPFSGDPLPANPKQLILKVISGQQLPKPPDSMFGDRGEIIDPFVEVEIIG  
 LPVDCCKDQTRVVDNNGFNPVWEETLFTFVHMPEIALVRFVWDHDP IGRDFVGGQRTVTFSSLPGYRHV  
 YLEGLTEASIFVHITINEIFGKWSPLILNPSYTI LHF LGATKNRQLQGLKGLFNKNPRHASSENNSHYVR  
 KRISIGDRILRRTASAPAKGRKSKVGFQEMVEIKDSVSEASRDQDGVLRRTTRSLQVRPVSMPVDKSLLG  
 ALSLP ISEAAKDTDGKENCLVQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

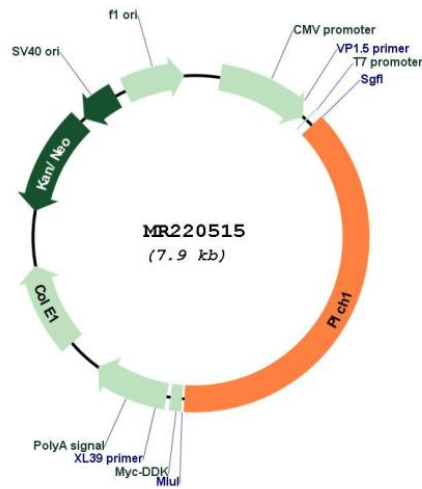
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001177732  
 ORF Size: 3009 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001177732.2</a>
<b>RefSeq Size:</b>	6294 bp
<b>RefSeq ORF:</b>	3012 bp
<b>Locus ID:</b>	269437
<b>UniProt ID:</b>	<a href="#">Q4KWH5</a>
<b>Cytogenetics:</b>	3 E1
<b>MW:</b>	115 kDa
<b>Gene Summary:</b>	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]