

Product datasheet for **MC224609**

Plch2 (NM_001113360) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plch2 (NM_001113360) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plch2
Synonyms:	A930027K05Rik; Plc-eta2; PLCeta2; Plcl4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224609 representing NM_001113360 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGCGGACTGGCTGGGGACCATCCAGGGCCGAGGCAGCAGTTGGGTCAATGCCAGTGGGACCTGGG
AACAGCCCTTGCGGGGCTTCAGTGGGCTCCAAGGAGGAAGACGAAGAGGTAGAGGAGAGAAGGGGATCCC
TGAGGAGCCCTGTGCCAGCTGACACCTCAGCTTGGCCTGTCGCTGAGGGTCCCTTTGGCTTGGGGGAC
TACGGCTTGATATGCCTGGTCCCCAGCCGTCTGCTGCCAGCCAGACCAGGAGCCGTGGCTTGCCTGG
CAGAGGTACTCCTCTGGTTGGAGGGAGCGTGGTAGTGTACCAAGATGGCAGCTCAGCCTTGATAGTGA
GCGATGCATGAGTGCCATGCAAGAGGGGACCCAGATGGTGAAGCTCCGTGGCAGCTCCAAGGGATTGGTC
CGCTTCTACTACCTGGATGAGCACCCTCTGCTCCGATGGCGTCCCTCCCGCAAGAACGAGAAAGCCA
AGATTTCCATCGACTCCATCCAGGAGGTGAGTGAGGGCCGGCAGTCTGAAATCTTCCAGCGCTACCCGGA
CAGCAGCTTTGACCCCAACTGCTGCTTCAGCATCTACCATGGCAGCCACAGAGATCGCTGGACTTGGTC
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AAGACAGCCTAGCCCGTCGCCAGCGTACCAGGGACCAAGTGGTGAAGCAGACGTTTGATGAGGCTGACAA
GAACGGGGACGGCAGCCTGAGCATCAGTGAGGTTCTGCAGCTGTACATAAACTCAACGTGAACCTGCCC
CGGCAGAGGGTGAAACAGATGTTTCAGGGAGCGGACACAGATGACCATCAGGGGACATTAGGCTTTGAGG
AATTCTGCGCCTTCTACAAGATGATGTCTACCCGCCGAGACCTCTACCTGCTCATGCTGACCTACAGCAA
CCATAAGGACCACTTGGATGCCTCCGACCTGCAGCGCTTTCTGGAGGTGGAGCAGAAGATGAACGGTGTG
ACCCTGGAGAGCTGTGAGAACATCATTGAGCAGTTTGGCCTTGCTGAAAATAAGAGCAAGGGGATGC
TGGGGATTGATGGCTTTACCAACTACACCCGAGCCCCGCGGTGACATCTTCAACCCTGAGCACAACAG
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GATCCTTTTCAAAGATGTCATCGAAACCATCAACAAATACGCCTTCATCAAGAATGAGTACCCAGTGATC



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CTGTCCATTGAGAACCACTGTAGTGTGTTCAGCAGAAGAAGATGGCCAGTATCTGACTGACATCCTCG
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 GGGCAAGATCCTGGTGAAGGGGAAGAAGCTCCCTGCCAATATCAGTGAGGATGCAGAAGAAGCGAAGTA
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 GGAAGCGTGTGGAACATTGCAAAGAAGAAGCTGGATTCTCTGATCAAGGAGTCAAAGATCCGTGACTG
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 AAGAAGGGTCAGAGCAAGGTTGAGGAAGACGTGGAGGCCGGGAAGACAGCGGGTGAGCAGGCAGAATA
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 AGAGGCTCCTGCGGCGCACGGCCAGTGCCCGACCAAAAGCCAGAAGCCAAGTCGAAGGGCTTCCAGAG
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 CCAGCTCTGGAGGCCCTACTCAAGAGAGGTGAGGCAGCAGCAGCCCCGAGATACTCGCCTCTCCCCC
 TGCAGCGGCCATCTCCCCCTGTGCAGCCTGGAACCCATTGCCGAGGAACAGCCCTGGGCCCTGGCCT
 CCCGTTACAGGACGCTGCCCCCAGAGTCCATCTCAGGAAGGGTCCCAGTGCCCTGTAGGCTGGGAGCC
 AAAGTGACCAGCTCCCAGCAGACATCTCTGGGAGCTTTTGAACCCCTCAGCTCAGGATTGGGGGCGGTA
 GGGAAACGAAGAGCCACCCCTCAGGCCACACAATGGTGGGATCTCCAGCGGGCCACGTAGGGGACTTC
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 AGTGAGGGCCAGGTGCTCTCGGAGCTCTCTCCACACCTGCAAGTGTACTCGGATGCCACGGGCACTGACA
 GGTATGAGCAGCGCTGGAGCCTGGGAGCCACAGGGACAGTGTCTCTCATCCTCCAGCATGTCTCCAA
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 AGAGCAATCGAACCCCAACCTGCGGGTGGGGTGGGCTGCCTACTGCACCCGACGAGCTGCAGCCCCG
 GCCTCTTGCCCCGCGCTGACCGGCCACCATCCACGGCCACCGTGGCATCACCTCACCTGGTGGGCTG
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 GGAATACGGCGAGATGCTCTCACGGAGCAGTACGCTGGCTCACCGGCTTCCAGCAGGCTGGGGACATC
 ACGTCGCCCACCAAGCTTGGGCCAGCTGGGGACGGGTCTGTAGGGGGCCCAAGTTCCTGAGGCGTTCT
 CCTCTCGGAGCCAGAGCCGCTGCGCGCTATTGCCAGCCGAGCCGCAAGCGCAGGAGGCCAGCAGAG
 GCTGAGAGGCCAGGACTCACGGGTCCCCAGAGGAGGAGCGGGCACCCCTGAGGGTGCCTGTTCTGTA
 GGCCATGAGGGTGTGTGGATGTGCAATGCCTGCCAAGGGAGCCCTGAGCAGGTGTGTGGTGTGCTG
 ATGGCCAGCTGCTGCTCAGGCTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001113360
 Insert Size: 4506 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001113360.2, NP_001106831.1</u>
RefSeq Size:	5067 bp
RefSeq ORF:	4506 bp
Locus ID:	269615
UniProt ID:	<u>A2AP18</u>
Cytogenetics:	4 E2
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. This phospholipase activity is very sensitive to calcium. May be important for formation and maintenance of the neuronal network in the postnatal brain.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) encodes the longest isoform (b).