

Product datasheet for **MG220515**

Plch1 (NM_001177732) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plch1 (NM_001177732) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plch1
Synonyms:	BC042549; PLC-eta-1; PLCeta1; Plcl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220515 representing NM_001177732
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGACCTTGAAGTGTATAAAAACCTAAGTCCAGAAAAAGTTGAAAGATGCATGAGTGAATGCAGT
 CCGGGACACAGATGATCAAACCTGAAGCGTGGCACCAGGCTCGTTTCGCTCTTTTACCTGGATGAGCA
 CCGGACCCGCTCCGATGGCGACCTCTCGAAGAGTGAGAAGGCAAAAATACTTATTGACTCCATCTAC
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 GCTTTACCATCTACCATGGCAACCACATGGAGTCTCTGGACCTCATTACCTCCAACCCAGAGGAGGCACG
 CACCTGGATCACGGCCCTCAAGTATCTGATGGCTGGCATCAGTGAAGACTCCCTTGCCAAGAGGCAG
 AGGACCCATGACCAATGGGTGAAGCAGACCTTTGAGGAAGCTGATAAGAACGGTATGGCTTATTGAATA
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 CCTGAGGAGGACCACCCGAGTCTGCAAGTACGCCTGTCTATGCCTGTTGACAAGAGCTTCTGGGG
 GCTTTGTGCTGCCATATCTGAAGCAGCAAAAGACACGGATGAAAAAGAAAACGTCTGGTACAGATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG220515 representing NM_001177732
 Red=Cloning site Green=Tags(s)

MADLEVYKNLSPEKVERCMSVMQSGTQMIKLKRGTKGLVRLFYLDEHRTRLRWRPSRKSEKAKILIDSIY
 KVTEGRQSEIFHRQAEGNFDPSCCFTIYHGNHMESLDLITSNPEEARTWITGLKYL MAGISDEDSLAKRQ
 RTHDQWVKQTFEEADKNGDGLLNIEEIHQLMHKLNVLPRRKVRQMFQEADTDENQGTLTFFEEFCVFYKM
 MSLRRDLYL LLLSYSDKKDHLTVEELAQFLKVEQKMSNVTLDYCLDIIMKFEVSEENKVNVLGIEGFTN
 FMRSPACDVFNPLHHEVYQDMDQPLCNYYIASSHNTYLTGDQLLSQSKVDMYARVLQEGCRCVEVDCWDG
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 VDTGECRQLPSPQSLKGIKLVKGGKLPYHLGDDAEEGEVSDSDADEIEDECKFKLHYSNGTTEHQVESF
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 KSRKSYSTDDEDDLQNPQKGGQLYRLGRRRRTMKLCRELSDLVYVYNSVAAQDIVDDGTTGNVLSFS
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 ANGNGCYILKPQQMCKGTFNPFSGDPLPANPKKQLILKVISGQQLPKPPDSMFGDRGEIIDPFVEVEIIG
 LPVDCCKDQTRVDDNGFNPVWEETLTFVHMPEIALVRFLVWDHDPIGRDFVQQRVTVFSSLPVGYRHV
 YLEGLTEASIFVHITINEIFGKWSPLILNPSYTIHLHFLGATKNRQLQGLKGLFNKNPRHASSENNSHYVR
 KRISIGDRILRRTASAPAKGRKSKVGFQEMVEIKDSVSEASRDQDGVLRRTTRSLQVRPVSMPVDKSLLG
 ALSLPISEAAKDTDGKENCLVQI

TRTRPLE – GFP Tag – V

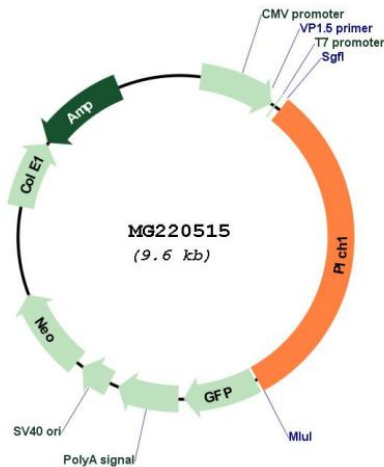
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001177732

ORF Size: 3009 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001177732.2](#)

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]