

Product datasheet for **RC239888**

PLCH2 (NM_001303013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCH2 (NM_001303013) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLCH2
Synonyms:	PLC-eta2; PLC-L4; PLCeta2; PLCL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC239888 representing NM_001303013 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTACCTCTGGGACCCGGGCTTTCTGTGAGCAGGTGTGCAGGAACCGAGGGGGTGAGACCAGTCTGTT
CCTGGGCTGGGACAGCTGACTCTGGCCTGGACTCCCTGGACCCTGCAGCCCCCTCTCCTGGGACAAGCTA
CAGCAGGAGGCTGAATGGAGAGAGGAGGGGAGAGAAGGAGCGAGTGGAGCGGTGCATGGGTGCCATGCAA
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GGAGGTGAGTGAGGGGCGCAGTCGGAGGTCTTCCAGCGCTACCCCTGACGGCAGCTTCGACCCCAACTGC
TGCTTCAGCATCTACCACGGCAGCCACCGCAGTCGCTGGACCTGGTCTCCACCAGCAGCGAGGTGGCGC
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TCAGGGAAGCGGACACGGATGACCACCAAGGGACGCTGGGTTTGAAGAGTTCTGTGCCTTCTACAAGAT
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CTACACCAGGAGCCCTGCTGGTGACATCTTCAACCCTGAGCACCACCATGTGCACCAGGACATGACGCAG
CCGCTGAGCCACTACTTCATCACCTCGTCCCACAACCTACCTCGTGGGTGACCAGCTCATGTCCAGT
CACGGGTGGACATGTATGCTTGGGTCTGCAGGCTGGCTGCCGCTGCGTGGAGGTGGACTGCTGGGATGG
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AAGAAGCTCCCAGCCAACATCAGCGAGGATGCGGAGGAAGGCGAGGTGTCTGATGAGGACAGTGCTGATG
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GACGATGTGGTCCCCCGGGCCCGGACCTGCTCCGAAGCCCGACCCAGGAGGGGCCCGCAGCGGCA
GCCCCGAGCGGCCACTCCCCCACTGTGCAGCCTGGAACCATCGC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239888 representing NM_001303013
Red=Cloning site Green=Tags(s)

MVPLGPGLSVSRCACTEVRPVCSWAGTADSGLDLDPAAAPSPGTSYSRRLNGERRGEKERVERCMGAMQ
EGMQMVKLRGGSKGLVRFYYLDEHRSCIRWRPSRKNEKAKISIDSIQEVSEGRQSEVFQRYPDGSDPNC
CFSIYHGSHRESLDLVSTSEVARTWVTGLRYLMAGISDEDSLARRQRTDQWLKQTFDEADKNGDGLS
IGEVLLQLHLNVLNPRQVRKQMFREADTDDHQGTLGFEFCFYKMMSTRDLVLLMLTYSNHKDHLDLDA
ASLQRFQVEQKMAVLTLESCQDIIEQFEPCPENKSKGLLGIDGFTNYTRSPAGDIFNPEHHVHQDMTQ
PLSHYFITSSHNTYLVDQQLMSQSRVDMYAWVLQAGCRCVEVDCWDGPDGEPIVHHGYTLTSKILFKDVI
ETINKYAFIKNEYPVILSIENHCSVIQKKMAQYLTIDLGDKLDLSSVSSDATTLPSPQMLKGKILVKG
KKLPANISEDAAEEGEVSDSDADEIDDDCKLLNGDASTNRKRVENTAKRKLDSL IKESKIRDCEDPNNFS
VSTLSPSGKLGRKSKAEEDVESGEDAGASRRNGRLVVGFSRRKKKGSKLKKAASVEEGDEGQDSPGGQS
RGATRQKKTMLSRALSDLVKYTKSVATHDIEMEAASSWQVSSFSETKAHQILQQKPAQYLRFNQQQLSR
IYPSSYRVDSSNYPQPFWNAGCQMVALNYQSEGRMLQLNRAKFSANGGCGYVLKPGCMCQGVFNPNSED
PLPGQLKKQLVLRISGQQLPKPRDSMLGDRGEIIDPFVEVEIIGLPVDCSREQTRVDDNGFNPTWEET
LVFMVHMP EIALVRFLVWDHDP IGRDFIGQRTLAFSSMMPGYRHVYLEGMEEASIFVHVAVSDISGKVKQ
ALGLKGLFLRGPKPGSLDSHAAGRPPARPSVSQRILRRRTASAPTKSQKPGRRGFPPELVLGTRDTGSKGVA
DDVVP GP GPAPEAPAQEGPGSGSPRAATPPTVQPGNHR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001303013

ORF Size: 3057 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:

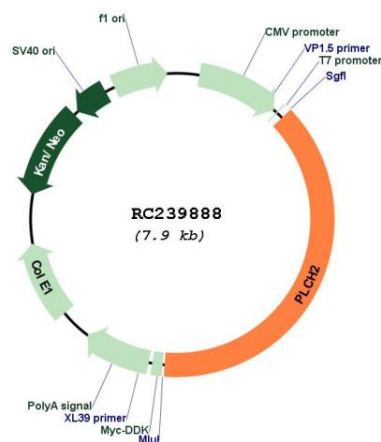
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001303013.1](#), [NP_001289942.1](#)

RefSeq Size:	5829 bp
RefSeq ORF:	3060 bp
Locus ID:	9651
UniProt ID:	O75038
Cytogenetics:	1p36.32
Protein Families:	Druggable Genome
MW:	113.5 kDa
Gene Summary:	PLCH2 is a member of the PLC-eta family of the phosphoinositide-specific phospholipase C (PLC) superfamily of enzymes that cleave PtdIns(4,5) P2 to generate second messengers inositol 1,4,5-trisphosphate and diacylglycerol (Zhou et al., 2005 [PubMed 16107206]). [supplied by OMIM, Jun 2009]

Product images:



Circular map for RC239888