

Product datasheet for **RC227478**

PLCL2 (NM_001144382) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCL2 (NM_001144382) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLCL2
Synonyms:	PLCE2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227478 representing NM_001144382 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGTGC GGCCGGGGGGCGCCCGCGGGGCCCTGCCACCTCCCGGGCCCGGCCCTCGGG
CCAAGGGCGCCCTGAAAGCCGGAGTGGGGGAAGCGGTGGCGGGGAGGTCGCCTCGGCCACGGCGGGC
GCGCTATGACAGCGGGCGGGTTTCCAACGGAGACTGCAGCCTCGGCGTGTCCGGGACGAAGCCCGGGCT
AGCCCTACCAGGGGACCCCGCGCGTTCGCGCTCGCCCGACCCAGCGGGTCTGTGTACCCTCCCC
GGGAGAGCAAGCCGGGGCCCTGCCCGCCGGAGCAGCATCATCAAGGATGGTACAAAACAGAAGAGGGA
ACGGAAAAAGACAGTCTCATTACGACAGCATGCCAACAGAGAAGAAGATCAGCAGTGCAAGTGATTGTATT
AATTCAATGGTTGAGGGTTCAGAACTCAAAAAGTTTCGCTCCAACCTCTAGAATTTATCATAGGACTTTT
TACTGGATGCTGACATGCAGAGCCTAAGGTGGGAGCCATCTAAGAAGGATTCTGAGAAAGCCAAGATTGA
CATTAAATCCATCAAGGAAGTGAGAACAGGAAAAACACAGACATATCCGCAGCAATGGCATTCTGAC
CAGATATCTGAAGATTGTGCGTTTTCCGTCATATATGGAGAGAATTATGAGTCACTGGATTTGGTTGCCA
ACTCCGCAGATGTTGCAAACATCTGGTTACAGGACTGCGGTACCTAATTTCTTATGGAAAACATACAT
TGATATGTTAGAAAGTAGCCAAGATAACATGAGGACTTCTGGGTTTACAAAATGTTTAGTGAAATTTGAT
GTAGATAACCTTGACATATAACTCTGTGTAATGCTGTGCAATGTATCAGAAACCTCAATCCTGGTTTAA
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TTTTCAAGCAATAAAGAATTCCTTGATACCAAGGACCTTATGATGTTTCTTGAGGACAGAACGGGTGTGG
CACATATAAATGAGGAAATAAGCCTTGAAATTATCACAAATATGAACCATCAAAGAGGGTCAGGAAAA
GGGCTGGCTCTCCATAGACGGGTTCACTAATTACCTTATGTCACCTGACTGTTATATTCGATCCAGAA
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ACCTCTCAGATAGTTTTCCGCAGTGCATTGATATTATTAACAAGTATGCATTCTTTGCTTCAGAGTATC



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CTCTTATCTTGTGTTTAGAAAACCACTGTTCCATTAACAACAGAAGGTAATGGTTCAGCACATGAAGAA
 ACTTTTAGGAGACAAGCTCTATACAACATCACCAATGTTGAGGAATCTTATCTACCATCCCCAGATGTC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227478 representing NM_001144382
 Red=Cloning site Green=Tags(s)

MAECRGGGAAGGALPTSPGPALGAKGALKAGVGEVGGGGGRLGHGRARYDSGGVSNDCSLGVSGDEARA
 SPTRGPRGVALAPTPSAVVCTLPRESKPGGLPRRSSIIKDGTQKQKRRERKKTVSFSMPTEKKISSASDCI
 NSMVEGSELKKVRSNSRIYHRYFLLDADMQSLRWEPSSKDKSEKAKIDIKSIKEVRTGKNTDIFRSNGISD
 QISEDCAFVSIYGENYESLDLVANSADVANIWVTGLRYLISYGHKHTLDMLESSQDNMRTSWVYQMFSEID
 VDNLGHITLCNAVQCIRNLNPLKTSKIELKFELHKSCKDAGTEVTKEEFIEVFHELCTRPEIYFLLVQ
 FSSNKEFLDTKDLMFLEAEQGVAHINEEISLEIIHKYEPSKEGQEKWLSIDGFTNYLMSPPDCYIFDPE
 HKKVCQDMKQPLSHYFINSSHNTYLIEDQFRGSPDITGYIRALKMGRSVELDVWDGPDNEPVIYTGHTM
 TSQIVFRSVIDIINKYAFFASEYPLILCLENHCSIKQQKVMVQHMKLLGDKLYTTPNVEESYLPSPDV
 LKGIKLIKAKKLSNCSGVEGDVDEDEGAEMSQRMGKENMEQPNNVPVKRFQLCKELSELVSICKSVQF
 KEFQVSFQVQKYWEVCSFNEVLASKYANENPGDFVNYNKRFLARVFPSPMRIDSSNMNPQDFWKCQCQIV
 AMNFQTPGLMMDLNIWFQRNGNCGYVLRPAIMREEVSFFSANTKDSVPGVSPQLLHIKIIISGQNFPKPK
 GSGAKGDVVDPYVYVEIHGIPADCAEQRTKTVHQNGDAPIFDESFEFQINLPELAMVRFVLLDDDYIGDE
 FIGQYTIPEFELQTYRHPVPLQSLTGEVLAHASLFFVHVAITNRRGGGKPHKRGLSVRKGKKSREYASLRT
 LWIKTYDEVFKNAQPPIRDATDLRENMQNAVVSFKELCGLSSVANLMQCMLAVSPRFLGPDNTPLVVLNL
 SEQYPTMELQGI VPEVLKIVTYYDMMIQSLKAL IENADAVYEKIVHCQKAAMEFHEHLHSIGTKEGLKE
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 ANDETGE

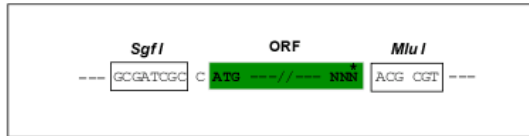
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

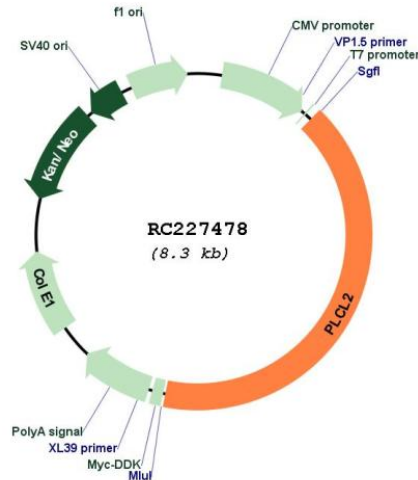
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001144382

ORF Size: 3381 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_001144382.2](#)

RefSeq ORF: 3384 bp

Locus ID: 23228

UniProt ID: [Q9UPR0](#)

Cytogenetics: 3p24.3

Protein Families: Druggable Genome

MW: 125.7 kDa

Gene Summary: May play an role in the regulation of Ins(1,4,5)P3 around the endoplasmic reticulum.
[UniProtKB/Swiss-Prot Function]