

Product datasheet for RC229409

PLCL1 (NM_006226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLCL1 (NM_006226) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLCL1
Synonyms:	PLCE; PLCL; PLDL1; PPP1R127; PRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229409 representing NM_006226 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC

ATGGCCGAGGGCGCGCCGGCAGGGAGGATCCGGCGCCGCCGACGCGCGGGGGCGAAGACGACCCCC
GAGTGGGCGCGGATGCCGCGGGGACTGCGTGACGGCGGCCTCTGGGGCGCGGATGAGGGACCGTCGCAG
CGGGTTCGCACTGCCAGGCGCCGGGGACCCAGCGGACAGCGAGGCGGGCCTCTGGAGGACGACGG
GCGACCCCCGGCGCAGCAGCATCATCAAGGATCCTTCAAACCAAAAATGTGGTGAAGAAAGAAAACCG
TGCTTTTTCAGCAGCATGCCATCGAAAAGAAAATTAGCAGTGCAAATGACTGCATCAGCTTCATGCAAGC
TGGCTGTGAGTTGAAGAAAGTCCGGCCAAATTCGTCATTACAACCGTTTTTCACTCTGGACACAGAC
CTTCAAGCTCTTCGCTGGGAACCTTCAAAGAAAGACCTCGAGAAAAGCAAGCTTGATATTCTGCCATAA
AAGAGATCAGACTGGGAAAAACACGAAAACATTTAGAAACAATGGCCTTGCTGACCAGATCTGTGAGGA
CTGTGCCTTTTCCATACTCCACGGGAAAACTATGAGTCTCTGGACCTAGTTGCCAATTCAGCAGATGTG
GCAAACATCTGGGTGTCTGGTTACGGTACCTGGTTTCTCGAAGTAAGCAGCCTCTTGATTTTATGGAGG
GCAACCAGAACACACCACGGTTCATGTGGTTGAAAACAGTGTTTGAAGCAGCAGATGTTGATGGGAATGG
GATTATGTTGGAAGACACCTCTGTAGAGTTAATAAAAACAACCTCAACCCTACTCTGAAGGAAGCCAAGATC
AGGTTAAAGTTTAAAGAAATCCAGAAGAGCAAGGAAAACTAACACCCCGCTGACCGAAGAGGAATTTT
GTGAAGCTTTTTGTGAACCTTGCACAGGCCAGAAGTGTATTTCTTACTGTACAGATATCTAAAAACAA
AGAATATTTGGATGCCAATGATCTCATGCTCTTTTTAGAAGCTGAGCAAGGAGTCAACCATATCACCGAG
GATATATGCTTAGACATCATAAGGAGATACGAACCTTCTGAAGAGGGACGTCAAAAAGGTTTCTTGCAA
TTGATGGCTTTACCCAGTATTTATTGTCATCAGAATGTGACATTTTGTGCTGAGCAAAAAGAGTTGTC
CCAAGATATGACCCAGCCATTATCTCACTACTATCAATGCCTCTCATAACACCTATCTAATAGAAGAC
CAGTTCAGGGGGCCAGCTGACATCAATGGGTACATTAGAGCTTTGAAAATGGGCTGTGCAAGCGTTGAAC
TCGATGTAAGTGATGGTTCAGATAATGAACCAATCCTTTGTAATCGAAAATACATGACAACCCATGTTTC
CTTTCGAAGTGCATAGAGGTAATAATAAATTTGCCTTTGTTGCTTCTGAATACCCACTATTCTTTGC



TTGGAAATCACTGCTCCTTGCCGACGAGAAAGTAATGGCTCAACAGATGAAAAAGTCTTTGGCAATA
 AACTCTATACTGAAGCACCTTTGCCCTCAGAATCCTACCTCCCATCACCAGAAAAATAAAAAGAATGAT
 CATTGTGAAAGGAAAGAAGTTGCCTTCTGATCCAGATGTGTTAGAAGGAGAAGTAACAGATGAAGATGAA
 GAAGCTGAAATGTCTCGAAGGATGTCGGTAGATTACAATGGTGAGCAGAAGCAATCCGACTCTGTAGGG
 AGCTCTCTGATTTGGTGTCTATTTGTAATCTGTTCAATACAGGGATTTGAACTATCTATGAAAAGCCA
 AAAGTATTGGAAATGTGTTCAATTTAGTAAACAGAGGCCAGCCGATTGCAATGAGTACCCAGAGGAT
 TTTGTAATTATAATAAGAAGTTCTTATCAAGAATCTATCCAAGTGCCATGAGGATCGATCCAGTAACT
 TGAATCCACAGGACTTTTGAATTGTGGCTGTCAGATTGTAGCAATGAATTTTCAGACTCCGGGTCCAAT
 GATGGACCTTCACACGGGCTGGTTTCTTCAAAACGGGGATGTGGTTATGTTCTAAGGCCGTCTATAATG
 CGAGATGAAGTTTCTTACTTCAGCGCAAATACAAAGGGCATTCTACCTGGGGTGTCTCTAGCTCTTC
 ATATCAAGATCATCAGTGGTCCAGAAATTTCCAAAGCCCAAGGGAGCTTGTCCAAAGGGGATGTCATAGA
 TCCCTATGTTGTATAGAGATACACGGAATTCAGCGGATTGTTCCGAAACAAAGAACTAAAAGTACAG
 CAAAACAGTGATAATCCTATTTTGTGAAACTTTTGTGTTCCAAGTAACTACCTGAGCTGGCCATGA
 TCCGTTTTGTTGTTCTGGATGATGACTACATTGGGGATGAGTTTATAGGGCAATATACGATACCATTGA
 ATGTTTGCAGCCTGGATATCGGCATGTTCCCTGCGTTCTTTTGTGGGTGACATCATGGAGCACGTAAAC
 CTTTTTGTCCACATAGCAATAACTAATCGAAGTGGAGGAGAAAGGCACAGAAGCCGAGTCTTTCAGTGA
 GAATGGGGAAGAAAGTTCGGGAATATACCATGCTCAGGAATATCGGTCTTAAAACATTGATGACATCTT
 TAAAATAGCGGTTTATCCATTACGAGAAGCCATAGATATGAGAGAAAATATGCAGAAATGCAATCGTGTCT
 ATTAAGGAACTATGTGGACTCCCTCCAATTGCCAGTCTGAAGCAGTGCCTGTTAACTCTGTCTATCTCGGC
 TCATCACCAGTGACAATACTCCTCAGTCTCACTTGTGATGAAAGACAGCTTTCCTTACCTGGAGCCTCT
 GGGTGAATTCAGATGTGCAGAAAAGATGCTGACTGCTTATGATCTGATGATTCAAGAGAGCCGGTTT
 CTCATAGAAAATGGCGACACAGTCCAGGAAAAGATTGTACAGTGCAGAAAGCAGGGATGGAGTTCCATG
 AAGAATTCATAATTTGGGGCAAAGAAAGGCTTGAAGGGAAGAAAACCAACAAAGCACTGAGAGCTT
 TGCTTGAACATTACAGTATTGAAGGGCCAAGGAGATCTGTTGAAGAATGCCAAGAATGAAGCTATAGAA
 AACATGAAGCAGATCCAGCTGGCATGCCTGTCTGTGGACTGAGTAAAGCCCCAGCAGCAGTGTGAGG
 CCAAGAGCAAGCGCAGCCTGGAAGCCATAGAGGAGAAGGAAAGTGTGAGGAGAATGGGAAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229409 representing NM_006226
 Red=Cloning site Green=Tags(s)

MAEGAAGREDPAPPDAAGGEDDPRVGPDAAGDCVTAASGGRMRDRRSGVALPGAAGTPADSEAGLLEAAR
 ATPRRSSIIKDPNSQKCGGRKKTVSFSSMPSEKKISSANDCISFMQAGCELKKVRPNRSRIYNRFFTLDDT
 LQALRWEPKDLKAKLDISAIKEIRLGKNTETFRNGLADQICEDCAFSLHGENYESLDLVANSADV
 ANIWWVSLRRLVSRKQPLDFMEGNQNTPRFMWLKTVFEAADVDGNGIMLEDTSVELIKQLNPTLKEAKI
 RLKFKIEIQKSKEKLTTRVTEEEFCEAFCELCRPEVYFLLVQISKNKEYLDANDLMLFLEAEQGVTHITE
 DICLDIIRRYELSEEGRQKGFLLAIDGFTQYLLSSECDIFDPEQKKVAQDMTQPLSHYYINASHNTYLIED
 QFRGPADINGYIRALKMGCERSVELDVS DGSNPEILCNRNMTTHVSRFSVIEVINKFAFVASEYPLILC
 LGNHCSLPQQVMAQQMKVFGNKLYTEAPLPSESYLPSPEKLRMIIVKGGKLPSPDPVLEGEVDEDE
 EAEMSRMSVDYNGEQKQIRLRELSDLVSICKSVQYRDFELSMKSQNYWEMCSFSETEASRIANEYPED
 FVNYNKKFLSRIYPSAMRIDSSNLPQDFWNCGCQIVAMNFQTPGPMMDLHTGWFLQNGGCGYVLRPSIM
 RDEVSYSANTKGIPLPGVSPLALHIKIIISGNFPKPKGACAKGDVIDPYVCIEIHGIPADCSEQRKTQVQ
 QNSDNPFDTEFEFQVNLPELAMIRFVVLDDDYIGDEFIGQYTIPEECLQPGYRHHVPLRSFVGDIMEHVT
 LFWHIAITNRSGGGKAQKRSLSVRMGKRVREYTMRLNIGLKTIDDFKIAVHPLREAIMRENMQNAIVS
 IKELCGLPPIASLKQCLLTLSSRLITSDNTPSVSLVMKDSFPYLEPLGAIPDVQKKMLTAYDLMIQESRF
 LIEMADTVQEKIVQCQKAGMEFHHEELHNLGAKEGLKGRKLNKATESFAWNITVLKQGDLKNAKNEAIE
 NMKQIQLACLSCGLSKAPSSSAEAKSKRSLEAIEEKESSEENGKL

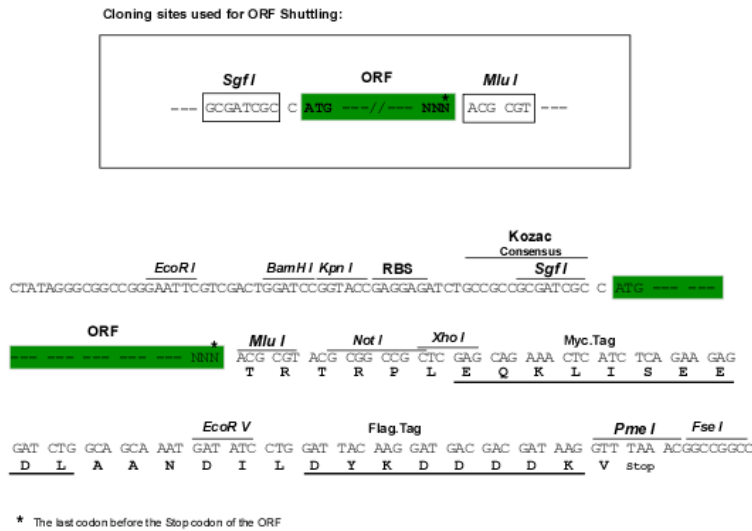
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8117_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006226

ORF Size: 3285 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_006226.4](#)

RefSeq ORF: 3288 bp

Locus ID: 5334

UniProt ID: [Q15111](#)

Cytogenetics: 2q33.1

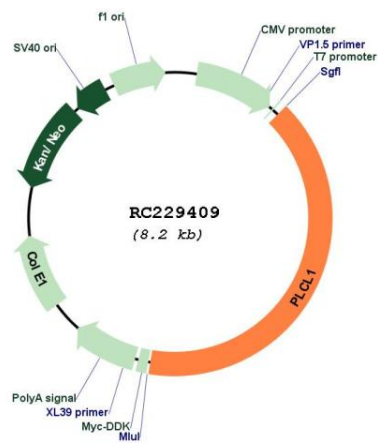
Domains: C2, PI-PLC-X, PI-PLC-Y, PH

Protein Families: Druggable Genome

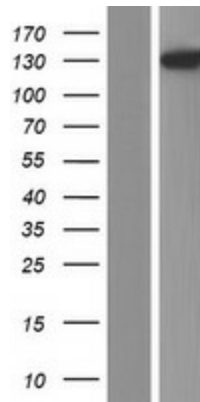
MW: 122.5 kDa

Gene Summary: Involved in an inositol phospholipid-based intracellular signaling cascade. Shows no PLC activity to phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol. Component in the phospho-dependent endocytosis process of GABA A receptor (By similarity). Regulates the turnover of receptors and thus contributes to the maintenance of GABA-mediated synaptic inhibition. Its aberrant expression could contribute to the genesis and progression of lung carcinoma. Acts as an inhibitor of PPP1C.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC229409



Western blot validation of overexpression lysate (Cat# [LY432418]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229409 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).