

Product datasheet for **RR214485**

Plcg1 (NM_013187) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcg1 (NM_013187) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plcg1
Synonyms:	PPLCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214485 representing NM_013187 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCGTCGGGACCCCTGCGCCAACGGCTGCGGGCCAGCGGCCCTCCGAAGCGGAGGTGCTGC
ACCTCTGCCGAGCCTCGAGGTGGCACCCTCATGACTTTGTTCTACTCCAAGAAGTCGACGCGGCCAGA
ACGGAAGACCTCCAGGTCAAGTTGGAGACGCCAGATCACATGGAGCCGGTGGGACAAAAATCGAG
GGGTCCATCGATATCCGAGAAAATCAAGGAGATCCGCCAGGGAAGACTTCCGGGACTTTGACCGCTACC
AAGAAGACCCTGCCTTCCGGCCAGATCAGTCACACTGTTTTGTCATCCTCTATGGAATGGAATCCGCT
GAAGACCCTGAGCCTGCAAGCCACATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTC
ATGGAAGATACGCTGCAGGCGGCCACACCCCTGCAAATGAGAGATGGCTCCGGAAGCAGTTCTACTCAG
TGGATCGTAACCGAGAGGATCGTATATCAGCCAAGGACCTGAAGAACATGCTGTACAGGTCAACTACCG
GGTCCCAACATGCGCTTCTCCGAGAGCGGCTGACGGACTTTGAACAGCGCAGCGGGGACATCACCTAT
GGGCAGTTTGCTCAGCTTACCAGCCTCATGTACAGCGCCAGAAGACGATGGACCTTCCGTTCTTGG
AAACCAACACTTTGAGGACTGGAGAGCGGCCAGAGCTTGCCAGGTGTCCTTTCTGAGTCCAGCAGTT
CCTTCTTGAGTACCAGGGGAGCTGTGGCTGTGACCGGCTTCAGGTGCAGGAATTTATGCTCAGCTTC
CTTCGAGACCCCTTGCAGAGATTGAGGAGCCATACTTCTTCTTGATGAGTTGTCACCTTTCTGTTCT
CCAAAGAGAACAGTGTGTGAACTCACAGCTGGATGCCGTGTGCCAGAAACCATGAACAACCCACTGTC
TCACTATTGGATCTTCTCCTCGCATAATACGTATCTGACTGGGGACCAGTTCTCCAGCGAGTCTCCCTG
GAAGCCTACGCTCGCTGCCTGAGGATGGGCTGTCGCTGCATCGAGTTGGACTGCTGGGATGGGCCAGATG
GGATGCCAGTCATTTACCATGGGCACACCCTCACCAAGATTAAGTTCTCAGATGCTCTGCACACCAT
CAAGGAGCACGCTTCGTAGCCTCAGAGTACCCTGTCATCCTGTCCATCGAGGACCCTGCAGCATTGCC
CAGCAGAGGAACATGGCCAGCACTTCAGGAAGGTGCTCGGTGACACGCTCTCACCAAGCCGTGGACA
TTGCCGCTGATGGCTCCCTTCCCAACCAGCTCAAGAGGAAGATCCTGATTAAGCATAAGAAGCTGGC
TGAGGGCAGTGCCTATGAGGAGGTGCCTACCTCTGTGATGTACTCTGAGAATGACATCAGTAACCTCATC



[View online »](#)

AAGAATGGTATCCTCTACTTGGAGGACCCCGTGAATCATGAGTGGTACCCCACTACTTTGTTCTGACTA
GCAGCAAGATCTACTACTCTGAGGAGACCAGCAGTGACCAGGGAATGAGGATGAAGAGGAGCCGAAGGA
GGCCAGTGGCAGCACAGAGCTGCACTCGAGCGAGAAGTGGTCCACGGGAAGCTCGGGCTGGGCGCGAC
GGGCGGCACATTGCTGAGCGCCTGTCCACCGAGTACTGCATAGAGACTGGGGCTCCCGATGGCTCCTTCC
TAGTGCGAGAAAGTGAGACCTTCGTGGGGGACTACACGCTGTCTTTTGGCGGAATGGGAAAGTCCAGCA
CTGCCGTATCCACTCCCGCAGGATGCTGGGACTCCTAAGTTCTTCTTGACAGATAAACCTTGCTTTTGAC
TCTCTATGACCTCATCACACATTATCAGCAAGTGCCCTGCGCTGCAATGAGTTTGAGATGCGCCTTT
CAGAGCCTGTTCCACAGACGAATGCCCATGAGAGCAAAGAGTGGTACCACGCAAGCCTGACTAGAGCTCA
GGCTGAACACATGCTGATGCGAGTACCCCGTGTGGGGCTTCTGTTGCGGAAGCGCAACGAGCCCAAC
TCCTATGCCATCTCTTCCGGGCTGAGGAAAGATCAAGCACTGCCGAGTACAGCAGGAAGGCCAGACTG
TGATGCTGGGAACTCTGAGTTTGACAGCCTGGTCGACCTCATCAGCTACTATGAGAAGCATCCCCTGTA
CCGCAAAATGAAACTGCGCTACCCCATCAACGAGGAGGCGCTGGAGAAGATTGGGACAGCTGAACCCGAT
TATGGGCACTGTATGAGGGCCCAACCCTGGTTTCTATGTGGAGGCCAACCTATGCCAACTTTCAAGT
GTGCGATAAAAGCTCTTTCGACTACAAGGCCAGAGAGAGGATGAGCTGACTTTTACCAAGAGCGCCAT
CATCCAGAATGTGAAAAGCAAGATGGTGGCTGGTGGCTGGGGACTATGGTGGGAAGAAGCAGCTGTGG
TTCCCCCTAAACTATGTGGAAGAGATGATCAATCCAGCAATCCTAGAGCCGAGAGGGAGCATCTGGATG
AGAACAGCCCACTGGGGGACTTGTCTGCGAGGGTCTTAGATGTGCCAGCCTGCCAGATCGCCATTCGTCC
TGAGGGCAAAAACAACCGGCTCTTCGTCTTCTCCATCAGCATGCCGTGAGTGGCTCAGTGGTCCCTAGAC
GTTGCCGCTGACTCACAGGAGGAGTTGCAGGACTGGGTGAAAAAGATCCGTGAAGTTGCCAGACTGCAG
ATGCCAGGCTTACTGAGGGGAAGATGATGGAGAGGAGGAAGAAGATCGCCTTGGAGCTCTCCGAGCTCGT
GGTCTACTGCCGGCTGTTCCCTTTGACGAAGAGAAGATTGGCACAGAACGCGCTTGTACCAGGACATG
TCCTCCTTTCCGAAACCAAGGCTGAGAAGTATGTGAACAAGGCCAAAGGCAAGAAGTTCTCCAGTACA
ACCGGCTGCAGCTCTCTCGCATCTACCCTAAGGGTCAGAGGCTGGACTCCTCAATTATGACCCCTGCC
CATGTGGATCTGTGGCAGCCAGCTTGTAGCTCTCAATTTTCAGACCCAGACAAGCCTATGCAGATGAAC
CAGGCCCTTTCATGGCTGGTGGACTGTGGCTATGTGCTGCAGCCAAGCACCATGAGAGATGAAGCCT
TTGACCCCTTTGATAAGAGCAGTCTCCGAGGTCTGGAGCCCTGTGTCAATTTGCATTGAGGTGCTGGGGC
CAGGCATCTGCCGAAGAATGGCCGGGTATTGTGTGCTCTTTCGTGGAGATTGAAGTGGCTGGGGCAGAG
TAGCAGCAGCAACGAGAAGACAGAGTTTGTAGTGGACAATGGACTGAACCCGTGTGGCCTGCAAAAGC
CCTTCCACTTCCAGATCAGTAACCCAGAGTTTGCCTTTCTGCGCTTTGTGGTGTATGAGGAAGACATGTT
TAGTGACCAGAACTTCTTGGCTCAGGCTACTTTCCAGTAAAAGGCTGAAGACAGGATACAGAGCAGTG
CCTTTGAGAACAACACTACAGTGAAGACCTGGAGTTGGCCTCCCTGCTCATCAAGATTGACATTTCCCTG
CTAAGGAGAATGGTGACCTCAGCCCTTTCAGTGGTACATCCCTAAGGGAACGGGCTCAGATGCCTCCAG
CCAGCTGTTCCATGTCCGGGCCCGGAAGGGTCTTTGAAGCCAGATACCAGCAGCCATTTGAAGACTTC
CGCATCTCGCAGGAGCATCTCGCAGACATTTTGACAGTGGGAACGAAGGGCCCAAGAAGGACTCGGG
TCAATGGAGACAACCGCCTC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214485 representing NM_013187
 Red=Cloning site Green=Tags(s)

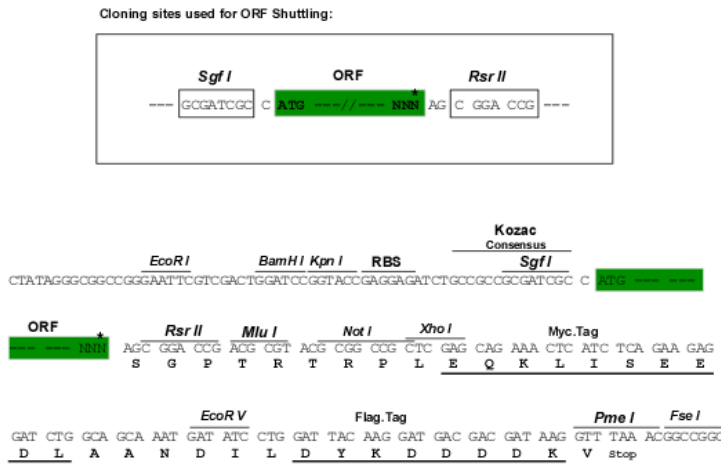
MAGVGTPCANGCGPSAPSEAEVLHLCRSLEVGTVMTLFYSKKSQRPERKTFQVKLETRQITWSRGADKIE
 GSIDIREIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTL SLQATSEDEVNMWIKGLTWL
 MEDTLQAATPLQIERWLRKQFYSVDRNREDRISAKDLKNMLSQVNYRVPNMRFRLRERL TDFEQRSQDITY
 QQFAQLYRSLMYSAQKTMDLPFLETNLTGTERPEL CQVSLSEFQQFLLEYQGELWAVDR LQVQEFMLSF
 LRDPLREIEEPYFFLDELVTFLFSKENS VNSQLDAVCPETMNNPLSHYWI SSSHNTYLTDGQFSSESSL
 EAYARCLRMGCRCIELDCWDGPDGMPVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIA
 QQRNMAQHFRKVLGDTLLTKPVDIAADGLPSPNQLKRRKILIKHKKLAEGSAYEEVPTSMYSENDISNSI
 KNGILYLEDPVNHWPYHYFVLTSSKIYYSEETSSDQGNEDDEEPEASGSTE LHSSEKWFHGKLGAGR
 GRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTL SFWRNGKVQHCR IHSRQDAGTPKFFLTDNLVFD
 SLYDLITHYQQVPLRCNEFEMRLSEVPVQTNAHESKEWYHASLTRAQAEHMLMRVPRDGAFLVRKRNEPN
 SYAISFRAEGIKHCRVQQEQGTVM LGNSEFDSLVDLISYYEKHPLYRKM KLRYPINEEAEKIGTAEPD
 YGALYEGRNPGFYVEANPMP TFKCAVKALFDYKAQREDEL TFTKSAIIQNVEKQDGGWWRGDYGGKKQLW
 FPSNYVEEMINPAILEPEREHL DENSPLGDLLRGVLDVPACQIAIRPEGKNNR L FVFSI SMP SVAQWSLD
 VAADSQEELQDWVKKIREVAQTADARL TEGKMMERRKIALELSELV VYCRPVPFDEEKIGTERACYRDM
 SSFPETKAEKYVNKAKGKKFLQYNRLQLSRIY PKGQR L DSSNYDPLPMWICGSQLVALNFQTPDKPMQMN
 QALFMAGGHCGYVLQ PSTMRDEAFDPFDKSSLRGLEPCVICIEVLGARHL PKNGRGI VCPFVEIEVAGAE
 YDSTKQKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFV VYEEDMFDQNFLA QATFPVKGLKTYRAV
 PLKNNSYEDLELASLLIKIDIFPAKENGDLSPFSGTSLRERASDASSQLFHV RAREGSFEARYQQPFEDF
 RISQEHLADHFDSRERRAPRRTRVNGDNRL

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_013187

ORF Size: 3870 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_013187.1 , NP_037319.1
RefSeq Size:	5106 bp
RefSeq ORF:	3873 bp
Locus ID:	25738
UniProt ID:	P10686
Cytogenetics:	3q42
MW:	148.5 kDa
Gene Summary:	mediates intracellular agonist-induced Ca ²⁺ entry (ACE); serves as a guanine nucleotide exchange factor for the nuclear GTPase PIKE [RGD, Feb 2006]