

Product datasheet for **RN214485**

Plcg1 (NM_013187) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plcg1 (NM_013187) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plcg1
Synonyms:	PPLCA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214485 representing NM_013187 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGCGGGCGTCGGGACCCCTGCGCCAACGGCTGCGGGCCAGCGGCCCTCCGAAGCGGAGGTGCTGC
ACCTCTGCCGAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGACGCGGCCAGA
ACGGAAGACCTTCCAGGTCAAGTTGGAGACGCGCCAGATCACATGGAGCCGCGGTGCGGACAAAAATCGAG
GGGTCCATCGATATCCGAGAAAATCAAGGAGATCCGCCAGGAAAGACTTCCCGGACTTTGACCGCTACC
AAGAAGACCCTGCCTTCCGGCCAGATCAGTCACACTGTTTTGTCATCCTCTATGGAATGGAATCCCGCT
GAAGACCCTGAGCCTGCAAGCCACATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTC
ATGGAAGATACGCTGCAGGCGGCCACACCCCTGCAAAATGAGAGATGGCTCCGGAAGCAGTTCTACTCAG
TGGATCGTAACCGAGAGGATCGTATATCAGCCAAGGACCTGAAGAACATGCTGTCACAGGTCAACTACCG
GGTCCCAACATGCGCTTCTCCGAGAGCGGCTGACGGACTTTGAACAGCGCAGCGGGGACATCACCTAT
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AAACCAACACTTTGAGGACTGGAGAGCGGCCAGAGCTTTGCCAGGTGTCCCTTTCTGAGTCCAGCAGTT
CCTTCTTGAGTACCAGGGGAGCTGTGGGCTGTCGACCGCTTCAAGTGCAGGAATTTATGCTCAGCTTC
CTTCGAGACCCCTTGCAGAGATTGAGGAGCCATACTTCTTGGATGAGCTTGTACACCTTTCTGTTCT
CCAAAGAGAACAGTGTGTGAACTCACAGCTGGATGCCGTGTGCCAGAAACCATGAACAACCCACTGTC
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CAAGGAGCACGCTTCGTAGCCTCAGAGTACCCTGTCATCCTGTCCATCGAGGACCACTGCAGCATTGCC
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TGAGGGCAGTGCCTATGAGGAGGTGCCTACCTCTGTGATGTACTCTGAGAATGACATCAGTAACCTCCATC
AAGAATGGTATCCTCTACTTGGAGGACCCCGTGAATCATGAGTGGTACCCCACTACTTTGTTCTGACTA



GCAGCAAGATCTACTACTCTGAGGAGACCAGCAGTGACCAGGGAATGAGGATGAAGAGGAGCCGAAGGA
 GGCCAGTGGCAGCACAGAGCTGCACTCGAGCGAGAAGTGGTTCCACGGGAAGCTCGGGGCTGGGCGCGAC
 GGGCGGCACATTGCTGAGCGCCTGCTCACCGAGTACTGCATAGAGACTGGGGCTCCCGATGGCTCCTTCC
 TAGTGCGAGAAAGTGAGACCTTCGTGGGGGACTACACGCTGTCTTTTGGCGGAATGGGAAAGTCCAGCA
 CTGCCGTATCCACTCCCGGCAGGATGCTGGGACTCCTAAGTCTTCTTGACAGATAACCTTGTCTTTGAC
 TCTCTCTATGACCTCATCACACATTATCAGCAAGTGCCCTGCGCTGCAATGAGTTTGAGATGCGCCTTT
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 TCCTATGCCATCTCTTTCCGGGCTGAGGAAAGATCAAGCACTGCCGAGTACAGCAGGAAGGCCAGACTG
 TGATGCTGGGGAAGTCTGAGTTTGACAGCCTGGTGCACCTCATCAGTACTATGAGAAGCATCCCCTGTA
 CCGCAAATGAAACTGCGCTACCCCATCAACGAGGAGGCGCTGGAGAAGATTGGGACAGCTGAACCCGAT
 TATGGGGCACTGTATGAGGGCCCAACCCTGGTTTCTATGTGGAGGCCAACCTATGCCAACTTTCAAGT
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 TTCCCCCAAACCTATGTGGAAGAGATGATCAATCCAGCAATCCTAGAGCCGAGAGGGAGCATCTGGATG
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 TGAGGGGCAAAAACAACCGGCTCTTCGTCTTCTCCATCAGCATGCCGTCAGTGGCTCAGTGGTCCCTAGAC
 GTTGCCGCTGACTCACAGGAGGAGTTGCAGGACTGGGTGAAAAAGATCCGTGAAGTTGCCAGACTGCAG
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 GGTCTACTGCCGGCCTGTTCCCTTTGACGAAGAGAAGATTGGCACAGAACCGCTTGTACCAGGACATG
 TCCTCCTTTCCGAAACCAAGGCTGAGAAGTATGTGAACAAGGCCAAAGGCAAGAAGTTCCTCCAGTACA
 ACCGGCTGCAGCTCTCTCGCATCTACCCTAAGGGTCAGAGGCTGGACTCCTCCAATTATGACCTCTGCC
 CATGTGGATCTGTGGCAGCCAGCTTGTAGCTCTCAATTTTCCAGACCCAGACAAGCCTATGCAGATGAAC
 CAGGCCCTCTTATGGCTGGTGGACACTGTGGCTATGTGCTGCAGCCAAGCACCATGAGAGATGAAGCCT
 TTGACCCCTTTGATAAGAGCAGTCTCCGAGGTCTGGAGCCTGTGTCATTTGCATTGAGGTGCTGGGGG
 CAGGCATCTGCCGAAGAATGGCCGGGTATTGTGTGTCCTTTCTGGAGATTGAAGTGGCTGGGGCAGAG
 TACGACAGCACCAAGCAGAAGACAGAGTTTGTAGTGGACAATGGACTGAACCCTGTGTGGCCTGCAAAGC
 CCTTCCACTTCCAGATCAGTAACCCAGAGTTTGCCTTTCTGCGCTTTGTGGTGTATGAGGAAGACATGTT
 TAGTGACCAGAAGTCTTGGCTCAGGCTACTTTCCAGTAAAAGGCTGAAGACAGGATACAGAGCAGTG
 CCTTTGAAGAACAACCTACAGTGAAGACCTGGAGTTGGCCTCCCTGCTCATCAAGATTGACATTTTCCCTG
 CTAAGGAGAATGGTGACCTCAGCCCTTTCAGTGGTACATCCCTAAGGGAACGGGCTCAGATGCCTCCAG
 CCAGCTGTTCCATGTCCGGGCCCGGAAGGGTCTTTGAAGCCAGATACCAGCAGCCATTTGAAGACTTC
 CGCATCTCGCAGGAGCATCTCGCAGACCATTTTACAGTGGGAAACGAAGGGCCCAAGAAGGACTCGGG
 TCAATGGAGACAACCGCCTTAG

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
 ACCN: NM_013187
 Insert Size: 3873 bp

OTI Disclaimer: 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.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_013187.1](#), [NP_037319.1](#)

RefSeq Size: 5106 bp

RefSeq ORF: 3873 bp

Locus ID: 25738

UniProt ID: [P10686](#)

Cytogenetics: 3q42

Gene Summary: mediates intracellular agonist-induced Ca²⁺ entry (ACE); serves as a guanine nucleotide exchange factor for the nuclear GTPase PIKE [RGD, Feb 2006]