

Product datasheet for **RR200573**

Plcg2 (NM_017168) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plcg2 (NM_017168) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Plcg2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200573 representing NM_017168
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACCACCATGGTCAACGTGGACACCCTTCCAGAATATGAGAAGAGTCAGATCAAGAGAGCCCTGGAGC
TAGGGACGGTGATGACCGTATTCAGTGCCCGCAAATCCACCCAGAGCGGAGGACAGTACAGATGATCAT
GGAGACCCGGCAGGTGGCATGGAGCAAGACAGCAGATAAGATCGAAGGCTTCTTGGACATCATGGAATA
AAGGAAATCCGGCCAGGGAAGAAGCTCCAAGGACTTTGAGCGAGCCAAGGCTGTCCGTACCAAGGCAGACT
GCTGCTTACCATCTTCTACGGCACCCAGTTCGTGCTCAGCACTCTCAGTCTGGCAACCGACTCAAAGGA
GGATGCAGTGAAGTGGCTCTCTGGCTTGAAGATCTTACACCAGGAAGCGATGAACGCATCCACTCCCACA
ATGATTGAGAGTTGGCTGCGGAAACAGATTTATTCAGTAGATCAAACCCGAAAGAACAGCATCAGCCTCC
GGGAGCTGAAGACCATCTTGCCCTGGTCAACTCAAAGTGAGCGGCATCAAGTTCCTCAAGGACAAGCT
GGTGGAAATTGGCGCCAGAAAGATGAGCTCAGTTTTGAACAGTTCATCTTTCTATAAAAACTCATG
TTTGAGCAGCAGAAGTCGATACTTGACGAATCAAAAAAGACTCCTCCGTGTTTCATCCTAGGGAACACAG
ACCGGCCTGATGCCTCAGCCGTCTACCTGCAAGACTTCCAGAGGTTTCTTTTACATGAACAGCAGGAGCT
ATGGGCTCAGGATCTGAACAAAGTCCGGGAGCGGATGACCAAGTTTATCGATGACACAATGAGGGAGACC
GCAGAGCCCTTCTGTTTGTGGATGAGTTCCTCACGTATCTGTTCTCACGGGAGAACAGCATCTGGGACG
AGAAGTACGATGCCGTGGACATGCAGGACATGAACAACCCCTTGTCCCATTACTGGATCTCCTCTTCCCA
CAACACGTACCTCACTGGAGACCAGCTGCGTAGCGAGTCTCCACGGAAGCGTATATCCGCTGTCTGCGT
GCTGGTTGTCGCTGCATCGAGTTGGATTGCTGGGATGGGCTGACGGGAAACCCATAATCTATCACGGTT
GGACACGGACCACCAAGATCAAGTTTGATGATGTTGTTTACGGCCATCCGGGATCATGCCTTTGTTACCTC
CAGCTTTCCCGTGATTCTGTCTATCGAGGAGCACTGCAGTGTGGAGCAGCAACGTCACATGGCCAAGGTC
TTCAAGGAAGTGTAGGAGACCTGCTGTGACGAAGCCACGGAGGCCAGTGTGACCAAGCTGCCCTCAC
CCAGCCAGCTTCGTGAGAAGATCATTATCAAGCATAAGAAGCTGGGCCCCCGAGGTGATGTCGATGTCAA
TGTGGAGGACAAGAAAGATGAGCACAAGACCCAGGGCGAGCTGTATATGTGGGACTCCATCGACCAGAAA
TGGACTCGCCACTACTGTGCTATTGCGGACGCCAAGCTGTCTTTCAGTGACGACATTGAACAGACTGTGG
AAGAGGATCCGGTCCAGGACACTCCCCCAGGAGCTACATTTGGGGAGAAATGGTTCCATAAGAAGGT
GGAGAGCAGGACCAGTGCAGGAGAAGCTGCTGCAGGAGTACTGTGCCGAGACTGGGCCAAGGATGGCACC



[View online »](#)

TTCTGGTGGGAGAGCGAGACCTTCCCAACGACTACACACTCTCTTCTGGCGGTCTGGCCGGGTGC
 AGCACTGCCGAATCCGGTCTACCATGGAGGGTGGGGTCATGAAGTACTACCTGACTGACAACCTCACGTT
 CAACAGCATCTACGCCCTCATCCAGCACTACCGGGAGGCACACCTGCGCTGTGCGGAGTTCGAGCTGCGG
 CTCACAGACCCGGTGCCCAACCCCAACCCACATGAGTCCAAGCCGTGGTACTATGACAGGCTGAGCAGGG
 GGAAGCAGAGGACATGTTGATGCGGATCCCCGAGATGGAGCCTTCTCATTGGAAGCCGGAGGGGAC
 CGACTTACGCCATCACCTTCAGGGCCAGGGCAAGGTAAACATTGCCGATCAACCCGGACGGACGT
 CACTTTGTGCTGGGACCTCTGCCTACTTTGAGAGCCTGGTGGAGCTCGTCAGTACTATGAGAAGCAGC
 CACTCTACCGCAAGATGAGGCTTCGCTACCCCGTGACCCCGGAGCTCCTGGAACGATATAATATGAAAG
 AGACATCAACTCTCTATGACGTGAGCAGGATGTATGTGGACCAAGTGAATCAACCCCTTCCATGCTC
 CAGAGGACTGTAAAGCACTCTATGACTACAAAGCCAAGCGCAGCGATGAGCTGACCTTCTGCCGAGGTG
 CCCTCATCCACAACGTCTCAAGGAGCCGGGAGGATGGTGGAAAGGGGACTATGGGACCCGGATCCAGCA
 GTATTTCCCATCTAACTACGTTGAAGATATCTCGGCAGGCGATGCTGAGGAGATGAAAAGCAGATTATT
 GAAGACAACCCCTCGGGTCTCTCTGCAGAGGCATATTGGATCTTAATACCTACAATGTGGTGAAGGCC
 CCCAGGGGAAAAACCAGAAAGCCTTCGTCTTATCCTGGAGCCTAAGAAACAGGGGGACCCTCCTGTGGA
 GTTCGCGACTGACCGTGTGGAGAACTGTTGAGTGGTTTCAGAGTATACGAGAGATCACTTGAAGATC
 GACACCAAGGAGAACAACATGAAGTACTGGGAGAGGAATCAGTCCATTGCTATTGAGCTCTGACTTGG
 TTGTGACTGCAAGCCGACTAGCAAAAACCAAGGACCATTGGAATAATCCTGACTTCCGGGAAATTCGCTC
 TTTTGTGGAGACAAGGCAGACAGCATTGTGAGCAAAAGCCCGTGGATCTATTGCGGTACAACCAGAAG
 GCCTGACCCGTGTCTACCCCAAGGGACAGAGATTGACTCTTCCAACACGACCCCTCCGCTGTGGC
 TGTGTGGCTCCAGATGGTGGCGCTCAATTTCCAGACTCCAGACAAGTACATGCAGATGAACCATGCATT
 GTTTTCGCTCAATGGGCGGACAGGTTACGTCTGCAGCCCGAGAGCATGCGGTCTGAGAAGTATGACCCG
 ATGCCCCGGAGTCCCAGAGGAAGATCCTGATGACACTCACTGTCAAGGTTCTTGGTGCACGCCACCTCC
 CTAAACTAGGGCGGAGTATCGCCTGTCCCTTTGTAGAGGTGAAATCTGTGGGCGGAGTATGACAGCAA
 CAAATTCAGAGACGCGTTGTGAATGACAACGGTCTCAGCCCTGTCTGGGCTCCAACCTCAGGAGAAGGTG
 ACATTTGAAATTTATGACCCAAACCTTGCCTTCTACGCTTTCTGGTCTACGAAGAAGACATGTTCAAGT
 ACCCAACTTCTGGCTCATGCCACATACCCATTAAAGGCATCAATCAGGATTTAGATCAGTCCCTCT
 GAAGAACGGGTACAGTGAAGACATCGAGCTGGCATCCCTCCTGGTTTTCTGTGAGATGCGGCCAGTCTG
 GAGAGTGAAGAAGAACTCTATTCTCCTGTGCGCAGCTGCGGAGGCGGCAGGAAGAGCTCAACAACCAGC
 TCTTCTGTATGACACACACCAGAACCTGCGAGGAGCCAACCCGGATGCCCTGGTGAAGGAGTTCAATGT
 TAACGAGAAATCAGCTGCGGCTGTACCAGGAGAAGTGAACCGGAGGCTGAGAGAGAAGAGAGTGAGTAAC
 AGCAGGTTCTACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200573 representing NM_017168
 Red=Cloning site Green=Tags(s)

```

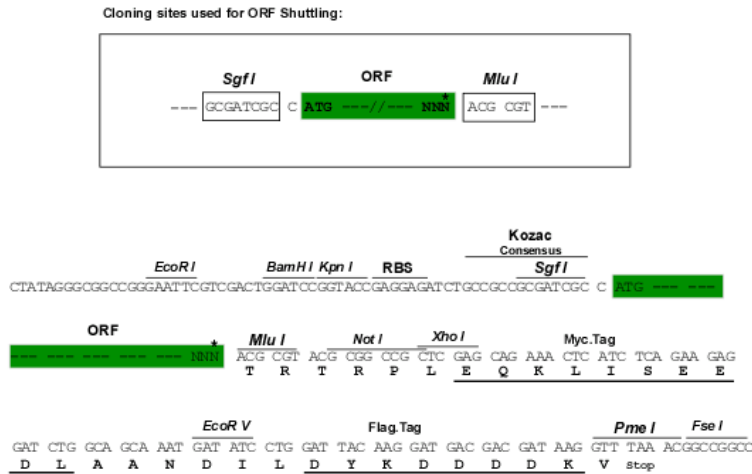
MTTMVNVDLPEYEKSQIKRALELGTVMTVFSARKSTPERRTVQMIMETRQVAWSKTADKIEGFLDIMEI
KEIRPGKNSKDFERAKAVRHKADCCFTIFYGTQFVLSTLSDATSKEDAVKWL SGLKILHQEAMNASTPT
MIESWLRRKQIYSVDQTRRNSISLRELKTLPLVNFKVSIGIKFLKDKLVEIGAQKDEL SFEQFHLFYKMLM
FEQQKSILDEFKKDSSVFLGNTRDPDASAVYLQDFQRFLLHEQQELWAQDLNKNVREMTKFIDDTMRET
AEPFLFVDFEFLTYLFSRENSIWDEKYDAVDMQDMNPLSHYWISSHNTYLTGDQLRSESSTEAYIRCLR
AGCRCIELDCWDGPDGKPIIYHGWRTRTKIKFDDVVQAIRDHAFVTSSFPVILSIEEHCSVEQQRHMAKV
FKEVLGDLTLTKPTEASADQLPSPSQLREKIIKHKKLGPRGDVDVNVEDKKDEHKTQGELYMWDSIDQK
WTRHYCAIADAKLSFSDIEQTVVEEDPVQDTPPELHFGEKWFHKKVESRTSAEKLLQEYCAETGAKDGT
FLVRESETFPNDYTL SFWRSGRVQHCRIRSTMEGGVMKYLLTDNLT FNSIYALIQHYREHLRCAEFELR
LTDVPVNPNPHEKSPWYDRLSRGEADMLMRIPRDGAFLIRKREGTDSYAITFRARGKVKHCRINRDGR
HFVLGTSAYFESLVELVSYYEKHALYRKMRLRYPVTELLERYNMERDINSLYDVS RMYVDPSEINP SMP
QRTVKALYDYKAKRSDeltaLFCRGALIHNVSKPEGGWKKGDYGTIRIQYFSPNYVEDISAGDAEEMEKQII
EDNPLGSLCRGILDNTYNNVKAPOGKNQKAFVILEPKKQGDPPVEFATDRVEELFEWFSIREITWKI
DTKENMKYWERNQSI AIELSDLVYCKPTSKTKDHLENPDFREIRSFVETKADSI VRQKPVDLLRYNQK
GLTRVYPKQQRVDSSNYDPFRLWL CGSQMVALNFQTPDKYMOMNHALFSLNGRTGYVLQPESMRSEKYP
MPESQRKILMTLTVKVLGARHLPKLGRSIACPFVEVEICGAEYDSNKFKTTVVNDNGLSPVWAPTQEKV
TFEIIDPNLAFLRFLVYEEDMFSDPNFLAHATYPIKGIKSGFRSVP LKNGYSEDIELASLLVFCMRPVL
ESEEELYSSCRQLRRRQEELNNQLFLYDTHQNLRGANRDALVKEFNVNENQLRLYQEKCNRRRLREKRVS N
SRFYS
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

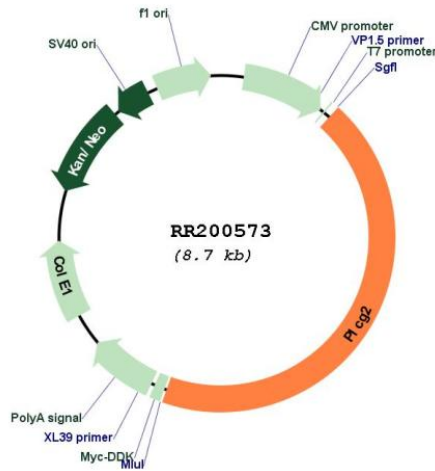
Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_017168

ORF Size: 3795 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_017168.1](#), [NP_058864.1](#)

RefSeq Size: 4321 bp

RefSeq ORF: 3798 bp

Locus ID: 29337

UniProt ID: [P24135](#)

Cytogenetics: 19q12

MW: 147.7 kDa

Gene Summary: has phosphoinositide-specific phospholipase C activity [RGD, Feb 2006]