

Product datasheet for MR211870

Plcg2 (NM_172285) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Plcg2 (NM_172285) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Plcg2 |
| Synonyms: | PLC-gamma-2; Plcg-2; PLCgamma2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR211870 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCACCATGGTCAACGTGGACACCCTTCCAGAATATGAGAAGAGTCAGATCAAGAGAGCGCTGGAGT
TAGGGACGGTGATGACCGTGTTCACGCCCGCAAATCCACCCAGAGCGGAGGACAGTACAGATGATCAT
GGAGACTCGGCAGGTGGCATGGAGCAAGACCGCAGACAAGATTGAAGGCTTCTGGACATCATGGAGATA
AAGGAAATCCGTCCGGGAAGAAGTCCAAGGACTTTGAGCGAGCCAAGGCTGTCCGCCACAAGGCAGAAT
GTTGCTTACCATCCTCTACGGCACCCAGTTTGTCTCAGCACGCTCAGTTTGGCAACGGACTCAAAGGA
GGATGCGGTGAAGTGGCTCTCTGTTTGAAGATCCTACACAGGAAGCGATGAGTGCATCCACCCCCACA
ATGATTGAGAGTTGGCTGAGAAAACAGATTTATTCAGTAGATCAAACCCGAAAGAAACAGCATCAGCCTCC
GGGAGCTGAAGACCATCTTGCCCTGGTCAACTTCAAAGTGAAGCGGCATCAAGTTTCTCAAGGACAAGCT
GGTGGAAATCGGCGCACAGAAAGATGAGCTCAGCTTTGAACAGTTCCATCTCTTATAAGAAAACATG
TTTGACCAGCAAAAATCGATACTTGACGAATCAAAAAGACTCCTCCGTGTTTCATCCTAGGAAACACAG
ACCGGCCGGATGCCTCGGCTGTCTACCTGCAGGACTTCAAAGGTTTCTTTACATGAACAGCAGGAGCT
ATGGGCTCAGGATCTGAACAAAGTCCGGGAGCGGATGACCAAGTTTATCGACGACACAATGAGAGAGACC
GCAGAGCCCTTCTATTTGTTGGATGAGTTCCTCAGTATCTGTTCTCCGGGAGAACAGCATCTGGGACG
AGAAGTACGATGCAGTGGACATGCAGGACATGAACAACCCTTGCCACTACTGGATCTCTCTTCCCA
CAACACGTACCTCACTGGGACAGCTGCGTAGTGAGTCTCCACGGAAGCGTATATCCGCTGTCTGCGC
GCTGGTTGCCGCTGCATTGAGCTGGACTGCTGGGACGGCCTGATGGGAAGCCATTATCTACCAGGCT
GGACACGGACCACCAAGATCAAGTTTGATGATGTTGTTTCAGGCCATCCGAGACCACGCTTTGTTACCTC
CAGCTTCCCCGTCATCTGTCTATCGAGGAGCACTGCAGTGTGGAGCAGCAACGTACATGGCCAAGGTG
TTCAAGGAAGTGTAGGAGACATGCTGTTGACGAAGCCACAGAGGCCAGTGCTGACCAGCTGCCCTCGC
CCAGTCAGCTTCGTGAGAAGATCATTATCAAGCATAAGAAGCTGGGTCCCAAGGGTGATGTCGACGTCAA
CGTGGAGGACAAGAAAGATGAGCACAAGCCCCAGGGCGAGCTGTATATGTGGACTCCATCGACCAGAAA



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TGGACGCGCCACTACTGTGCCATTGCTGACGCCAAGCTGTCCTTCGGTGATGACATTGAACAGGCTGTGG
AGGAGGAGCCGGTCCAGGACACTCCCCACGGAGCTGCATTTTGGGGAGAAATGGTTCCACAAGAAGGT
GGAGAGTAGGACCAGTGCGGAGAAGCTGCTGCAAGAGTACTGTGCTGAGACCGGGGCCAAGGACGGCACC
TTCCTGGTGCGGGAGAGCGAGACCTTCCCAATGACTACACACTCTCTTCTGGCGGTCTGGCCGGTGC
AGCACTGCCGGATCCGGTCTACTATGGAGAATGGGGTCATGAAGTACTACCTGACCGACAACCTCACGTT
CAACAGCATCTACGCCCTCATCCAGCACTACCGTGAGGCACACCTGCGCTGCGCGGAGTTCGAGCTGCGG
CTCACAGACCCGGTGCCCAACCCCAACCCACACGAGTCCAAGCCGTGGTACTATGACAGTCTGAGCAGGG
GGGAAGCGGAGGACATGCTGATGCGGATCCCCGAGATGGAGCCTTCTCATCCGGAAGAGGGAGGGGAC
CAACTCTACGCCATCACCTTCAGGGCCAGGGCAAGGTGAAACATTGTGCGATCAACCGGACGGACGC
CACTTCGTGCTGGGCACCTCTGCCTACTTTGAGAGCCTAGTGGAGCTTGTGAGTACTACGAGAAGCAG
CGCTCTATCGCAAGATGAGGCTTCGATACCCCGTACCCCGGAGCTCCTGGAGCGATATAATATGAAAAG
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CAGAGGACCGTGAAGCGCTCTATGACTACAAAGCCAAGCGCAGCGACGAGCTGACCTTCTGCCCGGTG
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GTACTTCCCGTCCAATATGTCGAGGATATCTCGGCAGGCGATGCTGAGGAGATGAAAAGCAGATTATT
GAAGACAATCCCCTCGGGTCTCTCTGCAAAGGCATATTGGATCTTAATACCTACAACGTTGTGAAGGCC
CCCAGGGGAAAAACCAGAAAGCCTTCGTCTTTATCCTGGAGCCTAAGAAAACAGGGAGATCCTCCCCTGGA
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GACACCAAGGAGAACAACATGAAGTACTGGGAGAGGAACCAAGTCCATCGCCATTGAGCTCTCGGACTTGG
TTGTATACTGCAAGCCTAGCAAAACCAAGGACATTTGAAAATCCCGACTTCCGAGAAATCCGCTC
TTTTGTGGAGACGAAGGCAGACAGCATTGTGAGCAAAAACCTGTGATCTATTGCGATAACAATCAGAAG
GGCCTGACCCGAGTCTACCCCAAGGACAGAGAGTTGACTCTTCAACTATGACCCCTCCGTCTGTGGC
TGTGCGGCTCCAGATGGTGGCACTCAATTTCCAGACTCCAGACAAATACATGCAGATGAACCCAGCGCT
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ATGCCCTGGAGTCCCAGAGGAAGATCCTGATGACACTACTGTCAAGGTTCTTGGTGCACGCCACCTCC
CTAAACTAGGGCGGAGTATTGCCTGTCTTTTGTGGAGGTGAAAATCTGCGGGGCTGAGTATGACAGCAA
CAAATTAAGACGACGGTGTGAATGACAATGGCCTCAGCCCTGTCTGGGCTCCAACCTCAGGAGAAGGTG
ACATTTGAGATCTATGATCCAACCTTGCTTCTACGCTTTGTGGTCTACGAAGAAGACATGTTCAAGT
ATCCCAACTTCTGGCTCATGCCACGTACCCATTAAAGGCATCAAATCCGGGTTTAGATCAGTCCCTCT
GAAGAATGGGTACAGTGAAGACATCGAGCTGGCATCCCTCCTGGTTTTCTGTGAGATGAGGCCAGTCCGT
GAGAGTGAAGAGAACTCTATTCCTCCTGTGCGCAACTGCGGAGCGGCAAGAAGAGCTCAACAACCAGC
TCTTCCTTTACGACACGCACCAGAACCTGCGCGGAGCCAACCGTATGCCCTGGTGAAGGAGTTCATGT
TAACGAGAATCAGCTGCAGCTGTACCAGGAGAAGTGAACCGGAGGCTGAGAGAGAAGAGAGTAAGCAAC
AGCAGGTTCTACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211870 protein sequence
 Red=Cloning site Green=Tags(s)

MTTMVNVDLPEYEKSIKRALELGTVMVFNARKSTPERRTVQMIMETRQVAWSKTADKIEGFLDIMEI
 KEIRPGKNSKDFERAKAVRHKAECCTILYGTQFVLSLSDATSKEDAVKWL SGLKILHQEAMSASTPT
 MIESWLRRKQIYSVDQTRRNSISLRELKILPLVNFKVSIGIKFLKDKLVEIGAQKDEL SFEQFHLFYKLLM
 FDQQKSILDEFKKDSSVFLGNTDRPDASAVYLQDFQRFLLEHQEQLWAQDLNKKVRERMTKFIDDTMRET
 AEPFLFVDFEFLTYLFSRENSIWDEKYDAVDMQDMNPLSHYWISSSHNTYLTGDQLRSESTEAYIRCLR
 AGCRCIELDCWDGPDGKPIIYHGWRTRTKIKFDDVVQAIRDHAFVTSSFPVILSIEEHCSVEQQRHMAKV
 FKEVLGDMLLTKPTEASADQLPSPSQLREKII IKHKKLGPKGDVDVNVEDKKDEHKPQGELYMWDSIDQK
 WTRHYCAIADAKLSFGDDIEQAVEEEPVDTPPELHFGEKWFHKKVESRTSAEKLLQEYCAETGAKDGT
 FLVRESETFPNDYTL SFWRSGRVQHCRIRSTMENGVMKYLLTDNLTFNSIYALIQHYREHLRCAEFELR
 LTDPVNPNPHEKSPWYDSL SRGEADMLMRIPRDGAFLIRKREGTNSYAITFRARGKVKHCRINRDGR
 HFVLGTSAYFESLVELVSYYEKHALYRKMRLRYPVTELLERYNMERDINSLYDVS RMYVDPSEINP SMP
 QRTVKALYDYKAKRSDLETCR GALIHNVSKEPGGWKGDYGTRIQQYFSPNYVEDISAGDAEEMEKQII
 EDNPLGSLCKGILD LNTYNVVKAPQGNQKAFVILEPKKQGDPPVEFATDRVEELFEWFSIREITWKM
 DTKENNMKYWERNQSI AIELSDLVYCKPTSKTKDHLENPDFREIRSFVETKADSI VRQKPVDLLRYNQK
 GLTRVYPKQGRVDSNYPDFRLWL CGSQMVALNFQTPDKYMOMNHALFSLNGRTGYVLQPESMRSEKYP
 MPLESQRKILMTLTVKVLGARHLPKLGRSIACPFVEVEICGAEYDSNKFKTTVVNDNGLSPVWAPTQEKV
 TFEIYDPNLAFLRFVVEEDMFSDPNFLAHATYPIKGIKSGFRSVP LKNGYSEDIELASLLVFCMRPVL
 ESEELYSSCRQLRRRQEELNNQLFLYDTHQNLRGANRDALVKEFNVNENLQLLYQEKCNRRLREKRVS N
 SRFYS

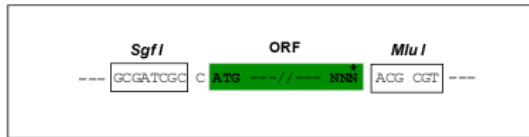
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



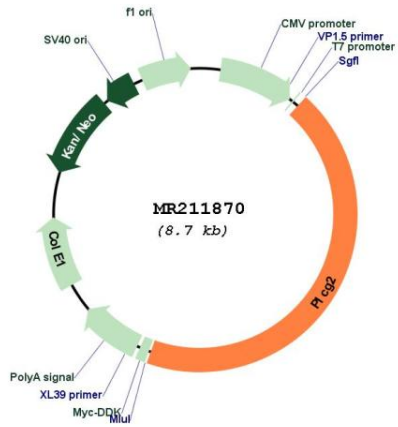
* The last codon before the Stop codon of the ORF

ACCN: NM_172285

ORF Size: 3795 bp

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| 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. |
| | 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: | <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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | NM_172285.1 , NP_758489.1 |
| RefSeq Size: | 4345 bp |
| RefSeq ORF: | 3798 bp |
| Locus ID: | 234779 |
| UniProt ID: | Q8CIH5 |
| Cytogenetics: | 8 64.26 cM |
| MW: | 147.6 kDa |
| Gene Summary: | The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. It is a crucial enzyme in transmembrane signaling (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR211870