

Product datasheet for **MC224680**

Cdc42bpg (NM_001033342) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdc42bpg (NM_001033342) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cdc42bpg
Synonyms: BC046418; MRCKgamma
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224680 representing NM_001033342
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGCGGCTGCGTGGAGCAGCTGGTACGGGGCGAAGCTGGTGGCAGCCCAGGGCTCGACG
GCCTCCTGGATCTGCTGCTGGGGTGCACCAAGAGCTCAGCAGCGCCCCCTGCGCCGGGAGCGTAACGT
GGCGCAGTTTCTGAGCTGGCCAGCCCCTTTGTAAACAAAAGTAAAAGAGCTGCGTCTACAGAGAGATGAC
TTTGAGATCTTGAAGGTGATTGGCAGAGGGCCTTTGGGAGGTTGCCGTGGTGAGGCAGAGGGGCAGTG
GCCAGATCTTTGCCATGAAGATGCTGCATAAGTGGGAGATGCTGAAGAGGGCTGAGACGGCCTGTTCCG
GGAGGAGCGAGATGTTCTAGTGAAGGGAGACAGCCGCTGGGTGACTGCTCTGCACTACGCCTCCAGGAT
GAAGAGTACCTGTACCTGGTATGGACTACTATGCTGGCGGGACCTTCTCACGCTGCTGAGCCGCTTTG
AGGACCGCTCCACCTGAGCTGGCCAGTTCTATCTGGCTGAGATGGTTCTGGCCATCCACTACTGCA
CCAGCTGGGCTATGTCCACAGGGATGTGAAGCCTGACAACATCCTGCTGGACATGAATGGCCACATCCGC
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CCCCGACTACATCTCCTGAGATCCTACAGCCATGGAGGAAGGCAAGGGCCACTACGGCCACAGTG
TGACTGGTGGTCACTGGGAGTCTGCGCCTATGAGCTGCTTTTGGGAAACACCCTTTTATGCAGAATCT
CTGGTAGAAACCTACGGCAAGATCATGAACCACGAGGACCACCTCCAGTTCCTGCTGATGTGACTGATG
TGCTGCTAGTGCCAGGACCTGATCCGACAGCTGCTGTGCCGTCAGGAGGAGCGGCTGGCCGTTGGTGG
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GCCAAGCGCAGAACCGGCAGGAAGAATTCCTGCAGAGGCTGTGGGAAGCCAGGAGAGAGAGGCAGCTGC
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 CAGGTGACCACCTGAGTCAGGAGGTGACACGGCTCCAGGGACAATGTAACAAGAATCTTCACAGGCCA
 AGACCGTCCATGCAGCCCTGAGACGAACGGCATAGGATCTCCTGAGGGTCAGTCTCAAGAGGCCAGCT
 GAGGAAGAAAGTGGCGCTCTGAGGGAGCAGCTGGAGCATGCCTGCAGCCAAGGGATCAGTGTGGGAAA
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 GGCTCAGATCGCTGACATCCTCAGCTGGGTGAATGACGAGAAGGTCTCAAGAGGCTACCTGCAGGCCCTG
 GCTACTAAGATGGCTGAGGAGCTGGAGTCTTGAGGAATGTGGGCACGCAGACACTCCCTACCCGGCCTC
 TGGATCACCAGTGAAGGCTCGGAGGCTGCAGAAGATGGAGGCCTCAGCCCGGCTAGAGCTTCAGTCAGC
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 CTGGAACACAGAGAAGGATTCTGCCAAGGACCTGGCAATTCAGGAGAGGGTCCAAGGTCTGGAGCCGAA
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 CCACCACCCTGCGGAAGGTCTCTGCTAAGCCCGGCTCACACACCCTGCGTCCCGGAGTTTTCCATC
 CCCTACCAAGTGTCTCCGCTGCACCTCGCTGATGCTGGGCTGGGCCGCCAGGGCCTGGGCTGTGACACC
 TGTGGCTACTTCTGCTACTCAGCTTGTGCGTCACAAGCCCCACCTTGCCCTGTGCCCCCTGAACTCCTCC
 GCACAGCCTTGGGGGTGCACCCCGAAACAGGCACAGGGACTGCCTATGAGGGCTTCTGTGCGGTGCCGCG
 GCCCTCAGGTGTCCGTGGGGCTGGCAGCGGGTGTACGCCGCTCTCAGTACTCCCGCTGTTGTTGTTT
 GATGCTCCTGACCCTCGAGGCAGCTGGCCAGTGGGGTCTCTGCAGGCCTGGATCTAAGGGACCCCC
 AGTTCTCAGCCACCCCTGCTTGGCCCCAGATGTATTATGCCCAATCCAAGGACCTGCCAGATCTT
 CAGGGTGACAGCCTCCAGCTGACAGTGCACCAACACATGCACTGTGCTGCTGCTGGCAGAGAAATGAG
 GGGGAGCGGGAGCGCTGGCTCAGGTGCTGGGGGAGCTGCAGCGGCTGCTACTGGATGCAGTCCAAGGC
 CCCGACCGGTGTACACTCAAGGAGGCCTATGACAATGGGCTGCCACTGCTGCCTCATGCGCTCTGTGC
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 TGGCTGTGCTCTGTGGCCGTGGCCCCAGTGTGCGCCTCTTCGCCCTGGACGAACTGGAGAGTGTGAGGT
 GGGGGTGCACAGATCCCGGAATCCCGAGGCTGTAGGCTTTGGTGTGGGCGCATCTGCAGGCCCGG
 ACTCCAGTGTCTGTGTGGCAGTCAAACCCAAGTTCTCTGTTACCAGCTGGGCCAGGACCAGGGCCCT
 GGCAGCGCCGATCCGAGAGCTGCAAGCACCAGCTCCGCTGCAGAGCCTGGGCTTGTGGGTGATCGGCT
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 ACTGGTCTGGTGGCCGAGGAGCTGCCTGCATCCCGTGGGGGCTAGGTGAGGCACTGGGTGCCGTGGAGC
 TCAGCCTCAGCGAGCTCCTGCTGCTCTTCGCCACTGCCGGGCTACGTGGATAGTGTGGCCGCAAGTC
 ACGAAGCCACGAGCTGCTGTGGCCAGCTGCACCCACTGGCTGGGGTTACACAGCACCCCTACCTAACAGTG
 TTCAGTGAAAACGCCCTTGATGTGTTTACGCTGAGGAGAGCAGAATGGGTACAGACTGTGCCGCTCAAGA
 AGGTGAGACCCCTGAATCCAGAAGGCTCCTTGTTCCTTATGGCACCGAGAAGGTCCGCCTGACCTACCT
 CAGGAATCCATTGGCAGAGAAGGACGAGTTTACATTCCCGACCTCACGGACAACAGCCGGCCAGCTG
 TTCCGCACCAAGAGCAAGCGCCGTTTCTTCTCCGGGTGTCTGATGAGCTGCGACAGCAGCAGCGCAGGG
 AGATGCTGAAGGACCCTTTTGTGCGCTCCAAGTTCATCTCGCCGCCACCAACTCAACCACCTGGTGCA
 CGTGGGCCCTACGAGGGAAGGCCAACACCAGGGATGGGACCCGGGCTCAGGAACAGAAGAGCAGAGGT
 GCCCGCAGCTCCGGGCCGAGCGGCCACAGCTTCTCAGAGGCATTTCCGGCGCCAGTGTCCACGGGCA
 GTGATGGTCTCCCTGGAGAAACAGACCCATTAGTGAAGAGGAAACCTTGACATCTCTGTCCAGCGAATC
 AGTGTCTGCCCCAGGGGTCCCTGAGCCCTGCAGCATCCCTGATACAGGTCTCAGAACGGCCCCGAAGT
 CTCCTCCAGATCTGAGTCAGAGAGCTCCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001033342

Insert Size:	4656 bp
OTI Disclaimer:	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:	<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:	<u>NM_001033342.1</u> , <u>NP_001028514.1</u>
RefSeq Size:	5994 bp
RefSeq ORF:	4656 bp
Locus ID:	240505
UniProt ID:	<u>Q80UW5</u>
Cytogenetics:	19 A
Gene Summary:	May act as a downstream effector of CDC42 in cytoskeletal reorganization. Contributes to the actomyosin contractility required for cell invasion, through the regulation of MYPT1 and thus MLC2 phosphorylation (By similarity).[UniProtKB/Swiss-Prot Function]