

Product datasheet for **SC304473**

CDC42BPG (NM_017525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42BPG (NM_017525) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42BPG
Synonyms:	DMPK2; HSMDPKIN; KAPPA-200; MRCKG; MRCKgamma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304473 representing NM_017525. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGAGCGGCGGCTGCGCGCGCTGGAGCAGCTGGCGCGGGGCGAGGCCGGCGGCTGCCGGGGCTCGAC
 GGCCTCTAGATCTGCTGCTGGCGCTGCACCACGAGCTCAGCAGCGGCCCTACGGCGGGAGCGCAGC
 GTGGCGCAGTTCTGAGCTGGGCCAGCCCTTCGTATCAAAGGTGAAAGAACTGCGTCTGCAGAGAGAT
 GACTTTGAGATCTTGAAGGTGATCGGCCGAGGAGCCTTTGGGGAGGTACCGTGGTGAGGCAGAGGGAC
 ACTGGGCAGATTTTGGCATGAAATGCTGCACAAGTGGGAGATGCTGAAGAGGGCTGAGACAGCCTGT
 TTCCGGGAGGAGCGGGATGTGCTCGTGAAGGGGACAGCCGTGGGTGACCACTCTGCATATGCCTTC
 CAAGACGAGGAGTACCTGTACCTTGTGATGGACTACTATGCTGGTGGGGACCTCCTGACGCTGCTGAGC
 CGCTTCGAGGACCGTCTCCCGCCCGAGCTGGCCAGTTCTACCTGGCTGAGATGGTGCTGCCATCCAC
 TCGCTGCACCAGCTGGGTATGTCCACAGGGATGTCAAGCCAGACAACGTCCTGCTGGATGTGAACGGG
 CACATTCGCTGGCTGACTTCGGCTCCTGCCTCGCTCTCAACACCAACGGCATGGTGATTATCAGTG
 GCAGTAGGGACGCCGACTATATCTCCCTGAGATCCTGCAGGCCATGGAGGAGGCAAGGGCCACTAC
 GGCCACAGTGTGACTGGTGGTCGCTTGGAGTCTGCGCCTATGAGCTGCTCTTTGGGGAGACGCCCTTC
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 GACGACACCCTCAACCATCCAGGGACCCTGCCACCGCCCTCCACGGGGCCTTCTCCGGCCATCACCTG
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 CTGGAGCGGAAGCTCCAGTGTCTGGAGCAGGAGAAGGTGGAGCTGAGCAGGAAGCACCAAGAGGCCCTG
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 CCAGAGATGCTGAGGGACAAGGCCTCATTGTCCCAGACGATGGGCCCCAGCTGGTAGCCAGGTGAG
 GACAGTGACCTACGGCAGGAGCTTGACCGACTTACCGGGAGCTGGCCGAGGGTCGGGCAGGGCTGCAG


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GCTCAGGAGCAGGAGCTCTGCAGGGCCAGGGGCAGCAGGAGGAGCTGCTTCAGAGGCTACAGGAGGCC
CAGGAGAGAGAGGCGGCCACAGCTAGCCAGACCCGGGCCCTGAGCTCCCAGCTGGAGGAAGCCCGGGCT
GCCCAGAGGGAGCTGGAGGCCAGGTGTCTCCCTGAGCCGGCAGGTGACGCAGCTGCAGGGACAGTGG
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GAGAAGGTCTCAAGAGGCTACCTGCAGGCCCTGGCCACCAAGATGGCAGAGGAGCTGGAGTCTTGAGG
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GCCTCTGATGTTATCCATGCCCAATCCAGGACCTGCCACGCATCTTTAGGGTGACAACCTCCAGCTG
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AACTCCATCGATGTGTTTACGTGAGGAGGGCAGAATGGGTGCAGACCGTCCCGCTCAAGAAGGTGCGG
CCCCTCAATCCAGAGGGCTCCCTGTTCTCTACGGCACCGAGAAGGTCCCGCTGACCTACCTCAGGAAC
CAGCTGGCAGAGAAGGACGAGTTCGACATCCCGGACCTACCGACAACAGCCGGCGCCAGCTGTTCCGC
ACCAAGAGCAAGCGCCGCTTCTTTTCCGCTGTCGAGGAGCAGCAGAAGCAGCAGCGCAGGGAGATG
CTGAAGGACCCTTTTGTGCGCTCCAAGCTCATCTCGCCGCTACCAACTTCAACCACCTAGTACAGTG
GGCCCTGCCAACGGGCGGCCCGGCCAGGACAAGTCCCGGCTCCCGAAGAGAAGGGCCGAGTTGCC
CGCGGCTCCGGCCACAGCGGCCCCACAGCTTCTCCGAGGCGTTGCGGCGCCAGCCTCCATGGGCAGC
GAAGGCCCTCGGTGGAGACGCAGACCCCATGAAGAGGAAACCTGGACATCCCTGTCCAGCGAGTCTGTG
TCCTGCCCCCAGGGATCGCTGAGCCCTGCAACCTCCCTAATGCAGGTCTCAGAACGGCCCCGAAGCCTC
CCCCTATCCCCTGAATTGGAGAGCTCTCTTGA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_017525

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_017525.2</u>
RefSeq Size:	4945 bp
RefSeq ORF:	4656 bp
Locus ID:	55561
UniProt ID:	<u>Q6DT37</u>
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Protein Kinase
MW:	172.5 kDa
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]