

## Product datasheet for MC224883

### Cdc42bpa (NM\_001033285) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc42bpa (NM_001033285) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cdc42bpa
Synonyms:	A930014J19Rik; DMPK-like
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224883 representing NM_001033285 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCGGAGAAGTGCCTTTGAGGCAGTTGGAGCAGTTATTTTAGATGGCCAGCTCAGACCAATGGGC  
AGTGCTTCAGTGTGGAGACGCTACTGGACATCCTCATCTGTCTTTACGATGAATGCAATAATTCTCCATT  
GAGAAGAGAGAAGAACATTCTTGAATATCTAGAATGGGCTAAACCATTTACTTCTAAAGTGAAGCAATG  
CGATTACATAGAGAAGACTTTGAAATATTAAGGTGATTGGTTCGAGGAGCTTTTGGGGAGGTTGCTGTAG  
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ATGACGACTGTTAAAAAATCTGAAACAATGCCCCACCAACACATACTGCATTTTCTGGCCATCATCT  
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AGTCTGAAAGAAGAGATTGAAAACTAAGGAAACAAGTAGCAGAAGTGAATCATTGGAACAACAACCTTG



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AAGAAGCTAATTCTGTGAGACGAGAAGCTAGATGATGCTTTCAGGCAAATCAAAGCTTCTGAAAAACAAAT  
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TTCCAGCTCTCAGCACCTAGTAACAAATGTTCCATCCTGATGCTAGCAGACAGCGAGAATGAGAGGAGT  
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GTCAGGATTTCTCAGATACCCCTGAATGGAGAAGGAGGTCCATGCAATATGCTCCATTCAAATGACCAT  
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TGCTGTGTTTTAACAGCATTGGGATATACACAGACTGCCAGGGCCGAAGATCCAGACAGCAGGAAGTGT  
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GATATCTTTGATGTAAGTCCATGGAATGGATACAGACTTCTCTCTCAAAAAGTCCGACCTTTAAACA  
CTGAAGGATCATTAAATCTTTAGGATTGGAGACCATTAGATTAATATTTCAAAAATAAGATGGCAGA  
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AAAGCGACAGCCATGCCCTCTCCCTCGGAGGGCTCTTTGTATCAGGAGGCATGGACCAAGGAAGTGC  
GCCCTGCGAGGGACTATGATGGAGAGGACTCTGATTCTCAAGGCATTCACAGCTTCCAACAGCTCTA  
ACCTGAGCAGCCCCCAAGTCCCATTTACCCCAAAAGACCAAGAGCCTCTCCCTGGAGAGCACAGACCG

CGGGAGCTGGGATCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001033285
<b>Insert Size:</b>	5199 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001033285.1</a></u> , <u><a href="#">NP_001028457.1</a></u>
<b>RefSeq Size:</b>	8656 bp
<b>RefSeq ORF:</b>	5199 bp
<b>Locus ID:</b>	226751
<b>Cytogenetics:</b>	1 H4
<b>Gene Summary:</b>	Serine/threonine-protein kinase which is an important downstream effector of CDC42 and plays a role in the regulation of cytoskeleton reorganization and cell migration. Regulates actin cytoskeletal reorganization via phosphorylation of PPP1R12C and MYL9/MLC2. In concert with MYO18A and LRP35A, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. Phosphorylates: PPP1R12A and LIMK2. May play a role in TFRC-mediated iron uptake (By similarity). In concert with FAM89B/LRAP25 mediates the targeting of LIMK1 to the lamellipodium resulting in its activation and subsequent phosphorylation of CFL1 which is important for lamellipodial F-actin regulation (PubMed:25107909).[UniProtKB/Swiss-Prot Function]