

Product datasheet for MC224860

Cdc42bpb (NM_183016) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cdc42bpb (NM_183016) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Cdc42bpb
 Synonyms: MRCKb
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC224860 representing NM_183016
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCCGCCAAGGTGCGGCTCAAGAAGCTGGAGCAGCTGCTCCTGGACGGCCGTGGCGCAACGATAGCG
 CCCTGAGCGTGGAGACGCTGCTGGACGTGCTGGTGTGCCTTTACACCGAGTGCAGCCACTCGCGCTGCC
 CCGCGACAAGTATGTGGCGGAGTTCCTCGAGTGGCCAAAGCCTTTCACCCAGCTCGTGAAGGACATGCAG
 TTCATCGAGAAGACTTCGAGATCATCAAAGTGATCGGGAGAGGAGCCTTTGGTGAGGTTGCTGTTGTCA
 AAATGAAGAACACTGAACGAATTTATGCAATGAAAATTCTCAACAAATGGGAAATGCTAAAGAGAGCAGA
 GACAGCTTGCTTTCGAGAAGAGCGTGACGTGCTGGTGAACGGCGACTGCCAGTGGATCACGGCTCTGCAC
 TATGCCTTTCAGGATGAGAACTACCTGTACTTGGTCATGGATTACTATGTAGGTGGTGTCTGCTGACCC
 TGCTGAGTAAGTTTGAAGACAAGCTTCCGGAAGACATGGCGAGGTTCTACATTGGCGAGATGGTGTGGC
 CATTGACTCGATCCACCAGCTCCACTATGTGCACAGAGACATCAAGCCGACAACGTCCTTCTAGATGTG
 AACGGTCACATCCGCCTGGCTGACTTTGGCTCGTCTTGAAGATGAACGATGATGGCACTGTTCACTCTT
 CCGTGGCCGTGGGCACACCTGACTACATCTCACCAGAGATCCTGCAGGCCATGGAGGATGGCATGGGCAA
 ATACGGGCCCAGTGTGACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 ATACGGGCCCAGTGTGACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TTCTACGCAGAGTCTCTGGTGGAGACATACGGGAAGATCATGAACCACGAGGAGCGGTTTTAGTCCCAT
 CCCATGTCACCGATGTCTCTGAAGAAGCAAAAGACCTTATCCAGAGACTAATATGCAGCAGAGAGCGCCG
 ACTTGGGAGAAATGGAATAGAAGACTTTAAGAAACACGCATTCTTTGAAGGTCTGAATTGGGAGAAATA
 CGAAACCTTGAAGCGCCCTACATTCCCAGTGTGAGCAGCCCTTCGGACACGTCCAACCTTCGATGTGGACG
 ACGACATGCTGAGAAACATTGAAATCTTACCTCCCGGCTCTCACACGGGCTTCTCGGGACTGCATTTGCC
 CTTTCATCGTTTTACATTACGACGAAAGCTGCTTTTCTGACCGGGCTCTCTGAAGAGCATGACTCAG
 TCTAACACGCTAACCAAGACGAAGATGTGACGCGGACTTGGAGAACAGCTTGCAGATCGAAGCGTACG
 AGCGAAGGATACGGAGGCTGGAGCAGGAGAAGCTGGAGCTCAGCCGGAAGCTGCAAGAATCCACCCAGAC
 TGTGACGTCCCTTACGGTTCCACACGGGCCCTGGGCAACTCAAACCGGACAAGGAAATCAAGAGGCTG
 AATGAAGAGCTTGAACGCATGAAGAGTAAAATGGCAGATTCAAACAGGCTCGAACGCCAGCTGGAGGACA



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CAGTGACACTTCGCCAGGAGCATGAGGACTCCACACACCGGCTGAAGGGCCTCGAGAAGCAGTACCGCCT
 GGCCCGCAGGAGAAGGAAGAATTGCACAAGCAATTGGTTGAGGCTTCAGAGCGATTGAAATCCCAGACC
 AAAGAACTTAAAGACGCGCATCAGCAGCGAAAACGGGCCCTGCAGGAGTTCTCAGAGCTCAATGAGCGCA
 TGTCCGAGCTCAGGTCGTGAAGCAGAAGGTGTCCCGTCACTCCGGGACAAGGAGGAGGAGATGGAGGT
 GGCCATGCAGAAGATCGACTCCATGCGGCAGGACCTCCGCAAGTCTGAGAAGTCCAGGAAAGAGCTGGAA
 GCTCGGCTTGAGGACGCGAGCTCCGAGGCCCTCAAGGTAAGCAAGGAGGCCGGGGCCAGGGCCCGCTC
 GGAACATCAGCAGGAGATCTCCAAAATCAGGTCGGAGCTCGAGAAGAAAGTCTTGTCTACGAGGAGGAG
 CTGGTGCGCCGAGAGGCCCTCCCACGTGCTAGAAGTAAAGAACGTGAAGAAGGAAGTCCACGACTCCGAAA
 GCCACCAGTTGGCCCTGCAGAAAGAGGTCTGATGCTGAAAGACAAGTTAGAAAAGTCAAAGCGAGAACG
 GCACAGTGAGATGGAGGAGGCCATAGGCACCGTGAAGGACAAGTACGAACGGGAGAGGGCCATGCTGTTT
 GATGAGAACAGAAGTTAACAGCAGAAAACGAAAAGCTTTGTTCCCTTTGTGGATAAACTAACAGCCAAA
 ACAGACAGCTGGAAGATGAGCTGCAGGATCTGGCATCCAAGAAGGAGTCAAGTTCGCGACTGGGAGGCGCA
 GATCGCAGAGATCATTAGTGGGTGAGGATGAGAAAGATGCCAGAGGCTACCTCAAGCCCTTGCTTCT
 AAGATGACCGAAGAGCTTGAGACCTTGCAGGTTCTAGTTTGGGATCCAGGACACTGGATCCACTCTGGA
 AAGTTCGTCCGAGTCAAGAGCTGGACATGTCTGCACGGCTGGAATTGCAGTCTGCTCTTAGGCCGAGAT
 CCGTGCCAAACAGCTCGTTCAGGAGGAGCTGAGGAAGGTCAAAGACAGCAGCCTGGCCTTCGAAAGCAAA
 CTGAAGGAATCGGAAGCGAAAAACAGGGAATTGTTAGAAGAAATGCAAAGTCTGAGGAAGAGGATGGAAG
 AGAAGTTTAGAGCGGATACAGGGCTCAAACCTCCAGATTTCCAGGATTCTATCTTTGAGTATTTCAACAC
 TGCTCCTCTTGACATGATCTGACTTTTAGAACCAGCTCAGTGTGACCAGGAAACACAGGCTTCAAAG
 ATGGACTGTCCCATCAGTGTCTGTAGCCACGAGCAGAGCAGCAGGAGGATATGGCTCGGCCACAGC
 AGAGCCGTCTCCTGTGCCACTGCCAGCAGCAGGCCCTCGCCATGGCTGGACCGAAGCCCAAAGGCCCA
 CCAGTTCAGCATCAAGTCTTCCCTAGCCCCACCAAGTGCAGCCACTGCACGCTCTGATGGTCCGACTG
 ATCCGACAGGGCTACGCCGTGTGAGGCTGTGCAATTTTCCCTGCCATGTGCTCCTGAAAGACAGCGCCCC
 AGGTGTGCCCCATACCTCTGAGCAGTCCAAGAGGCCCTTTGGCGTAGACGTGCAGAGGGGCATAGGCAC
 GGCTACAAGGGCTACGTCAAGGTCCAAAGCCACAGGCGTGAAGAAAGGATGGCAGAGGGCTTACGCC
 GTGGTCTGTGACTGCAAACCTTCTCTGTACGACCTGCCAGAAGGGAAGTGCACCCAGCCCGGTGTCGTTG
 CCAGTCAAGTCTTGACCTCAGAGATGAGGAGTTTGTGTGAGTTCAGTCTGGCCTCAGATGTTATCCA
 TGCTACACGCCGAGACATTCGTGCATATTCAGGGTGACGGCCTCTCTCTAGGTTGCTTCTAAGACC
 AGCTCACTGCTCCTGACGGAGAACGAGAATGAAAAGAGGAAGTGGTGGGATCCTGAAGGGCTGC
 AGGCCATCTTGACATAAGAACCGGCTGAAGAGCCAGGTAGTGCACGTGCACAGGAGGCCACGACAGCTC
 GCTGCCGCTCATCAAGGCCGTCTGGCTGCTGCTATCGTGGATGGAGACAGGATTGCGGTGCGCCTGGAA
 GAAGGGCTCTACGTCAATTGAGCTCACCCGAGACGTGATCGTCCGCGCTGCTGACTGCAAGAAGGTGTACC
 AGATCGAGCTGGCGCCCAAGGAGAAGATCGCCATCCTCCTGTGTGGCCGGAACCACCATGTGCACCTCTA
 CCCCTGGTCTCCTTCGACGGAGCAGAAGCGAGCAACTTTGACATCAAGCTCCCGAAACAAAGGGCTGC
 CAGCTCATAGCGACAGGGACGCTGAGGAAGAGCTGTCCACCTGCCTGTTTGTGCTGTGAAGCGACTAA
 TCCTTTGCTACGAGATCCAGAGAACTAAGCCTTCCACAGGAAGTTCAGTGAAGTGGTGGCTCCGGGACA
 CGTGCAGTGGATGGCCGTGTTCAAGGACAGGCTCTGTGTTGGCTACCCCTCTGGGTTCTCTGTTGAGC
 ATCCAGGGGACGGGCCCTCTCGACCTGGTAAATCCCACTGACCCCTCGCTCGGTTCTCTCACAGC
 AGTCTTTTCGATGCCCTCTGTGCTGTGGAGCTCAAAGTGAAGAGTACCTGCTTTGCTTACGCCACATGGG
 ACTGTACGTGGACCTCAAGGTCGGAGGTACGCATGCAGGAGCTCATGTGGCCTGCGGCTCCTGTGCGC
 TGTAGTTGCAGCCCAACCATGTACAGTGTACAGCGAATACGGGGTGGATGCTTTCGACGTGCGCACCA
 TGGAGTGGGTTACAGACATCGGCCTGCGGAGGATAAGACCTCTGAACTCTGATGGCAGCCTCAACCTGCT
 GGGCTGTGAGCCCTCGCCTCATCTACTTCAAAAACAAGTTCTCAGGAACAATCCTCAATGTGCCCGAC
 ACCTCGGACAACAGCAAGAAGCAGATGCTGAGGACACGGAGCAAACGACGTTTTGTCTTCAAGGTTCCCG
 AGGAAGAGCGGCTACAGCAGCGGAGAGATGCTCAGAGACCCCGAACTGCGATCCAAAATGATATCCAA
 CCCAACCAACTTCAACCAGTGGCTCACATGGGTCTGGGGATGGCATGCAGGTGCTCATGGACCTGCCT
 CTGAGTGTGCACCCACTGTCCAGGAGGAGAAGCAGGGCCCTACCCAGCAGGCCCTCCCGGCGAGCCGC
 CATCCAGGAGCAAGCCCTATGTCTCGTGGCCGTGTCAGGTGGTCCGAGCCTGGAGTGCCTGTGCCTCT
 GAGGAGCATGTCCGACCCCGACCAGGATTTTGACAAAAGAGCCTGACTCTGATTCCACCAAACACTCAACT
 CCATCCAATAGCTCCAACCCTAGCGGCCCCCAAGCCCAACTCGCCCATCGGAGCCAGCTCCCTATGG
 AAGGCCTGGACCAGCCATCCTGTGACGCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_183016
Insert Size:	5142 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_183016.2</u> , <u>NP_898837.2</u>
RefSeq Size:	6718 bp
RefSeq ORF:	5142 bp
Locus ID:	217866
UniProt ID:	<u>Q7TT50</u>
Cytogenetics:	12 60.94 cM
Gene Summary:	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 LURAP1, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. Phosphorylates PPP1R12A (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]