

## Product datasheet for **SC319305**

### CDC42EP1 (NM\_007061) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP1 (NM_007061) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42EP1
Synonyms:	55 kDa bone marrow stromal/endothelial cell protein; BORG5; CDC42 effector protein (Rho GTPase binding) 1; CDC42 effector protein 1; CEP1; CEP1, BORG5, MSE55, MGC15316; MGC15316; MSE55; OTTHUMP00000028709; serum constituent protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_007061.3  
 CGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCCGCCGCTGCAGACGACGAGTCCG  
 CCCTCGTCCCGCGCCCCCGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGATT  
 GCCGACCACCTCGGGGTGCTTTCTCTGCGTTGAACATCTATAGCTGCTTCTGAGGGG  
 TGGGAGCCGGGCCCTGGGAGAGACGAGCCATGAACCCCCACAGCCTCTGCATTGGGG  
 ACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCA  
 TCCCAAGCCCAGCCACCTCCCTCCCCGGCCCTGGTAGGCATGGACTAGCAGCTGTGA  
 GCAGCCAGAGCTGATGCCCGGCCCCAGGGGGCAGAGGCGCCACCATGAGCCTGGG  
 CAAGCTCTCGCCTGTGGGCTGGGTGCCAGTTCACAGGAAAGAGGCGGCTGACTGCAGA  
 CATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATGTGGGCCGTGGCGGGGA  
 TGTCTTCGGGGACACGTCTTCTCAGCAACCACGGTGGCAGCTCCGGGAGCACCATCG  
 CTCACCCCGCAGCTTCTGGCCAAGAAGCTGCAGCTGGTGCAGGGTGGGGGCGCCCC  
 CCGGAGGATGGCATCTCCCCTGCACCCTCCCCGGCTCCACCGGCATCTCCCCATCAT  
 CAAGAACGCCATCTCCCTGCCCCAGCTCAACCAGGCCCTACGACAGCCTCGTGGTTGG  
 CAAGCTCAGCTTCGACAGCAGCCCCACCAGCTCCACGGACGGCCACTCCAGCTACGGCT  
 GGACTCTGGGTTCTGCACCATCTCCCGCTGCCCGCTCGGAAAAGCCGATGACCGAGA  
 CCGGGATGGTTCCCTTCCCTCTGAGCCCGGCTTCGCGCTCTGACTCTCTTTGTCCTT  
 CCGCTGGACCTCGACCTTGGGCCCTACTCCTCAGCGAGCTGTAGGGGTATGAGCCT  
 GCCAGAAGCCCCTGCAGCTGAGACTCCAGCCCCGCTGCAAACCCCCAGCCCCTACTGC  
 AAACCCACGGGTCTGTGCAAACCCCCAGCCACTACTGCAAACCCCCAGCACCTGC  
 CGCAACCCCCACGGTCTGTGCAAATCCCCAGCCCCGCGCAAGCTCCACACCCCA  
 TGGACTGTCCCAATGGGGTAACAGCTGGGTTGGGCCAGTGGCTGAGGTGAAGTCCAG  
 CCCAGTGGGAGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGC  
 AGGCTGGGATGGCGGCCACCACTACCCAGAGATGGATGCCGCGCAGGAGCGGGTGGAGGT  
 GCTGCCCAAGCCCGGGCTCCTGGGAGAGCTGGACGAAGAGTGGAGGGCGCCCCAGGC  
 AGGCAGCAGGACCCAGTGCCAGCACAGTGAAGCAAACACCTTTGAATTTGCGGATGC  
 TGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCCAGGGCCCCACCTA  
 GGTGCAGAGCCGGCCCCCTACCTAACAGCTGGTCTCCTACCAGACCGAGAGGGGAGAAGT  
 CATGTTGCCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGA  
 AGGCCAGGCTTGCTCTGGGACTTTTATGCTCCCAGAGGCCCTGCCAACTGACCACCTCC  
 CCCGACTGCCACTCTGGACCTAATAGCTGTTTCTTAGGCCCACTCCATGCCACCCAC  
 CAGCTGGAGGACCCAGCCTCACAGTGTGCTTTGTGCCAGACCAAGCGGCCCGTGGGG  
 GTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTCACCTCCCAAAGGGACCGCCTG  
 CCCCCAGCTATCCCAGAGCGTCCCTGTGCAACCCTGACAGCCGTCTCCAGGGCCGCTT  
 CCCCACATCCCCGCCCCAGCCTCCCTTACCCAGAAAGGTACAGGTATGACCTCCCGG  
 GGAGGAATCCCACCTGCCTGTATACCCAGACTTGCTCTGGGGCCTGATTAATAAGGC  
 TGTTTTGATAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_007061

**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:** [NM\\_007061.3](#), [NP\\_008992.3](#)

**RefSeq Size:** 2131 bp

**RefSeq ORF:** 1155 bp

**Locus ID:** 11135

**Cytogenetics:** 22q13.1

**Gene Summary:** CDC42 is a member of the Rho GTPase family that regulates multiple cellular activities, including actin polymerization. The protein encoded by this gene is a CDC42 binding protein that mediates actin cytoskeleton reorganization at the plasma membrane. This protein is secreted and is primarily found in bone marrow. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) lacks an in-frame, 21 nt segment in the coding region compared to transcript variant 1, resulting in a shorter isoform (b) that is missing a 7 aa fragment, compared to isoform a.