

## Product datasheet for **SC100296**

### CDC42EP1 (NM\_152243) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP1 (NM_152243) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42EP1
Synonyms:	BORG5; CEP1; MSE55
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_152243, the custom clone sequence may differ by one or more nucleotides

```
ATGCCCGCCCCCAGGGGGCAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGG
TGTCCAGTTCACAGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCA
CACCATGCATGTGGGCGGTGGCGGGATGTCTTCGGGGACACGTCTTCTCAGCAACCACGGTGGCAGC
TCCGGGAGACCCATCGCTACCCCGCAGCTTCTGGCCAAGAAGCTGCAGCTGGTGGGAGGGTGGGGG
CGCCCCCGGAGGATGGCATCTCCCCCGCACCCCTCCCGGCTCCACCGGCCATCTCCCCATCATCAA
GAACGCCATCTCCCTGCCCGAGCTCAACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGTTC
GACAGCAGCCCCACCAGCTCCACGGACGGCCACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCT
CCCGCCTGCCCGCTCGGAAAAGCCGCATGACCGAGACCGGGATGGTTCCCTTCCCCTCTGAGCCCGGGT
TCGCCGCTCTGACTCTCTTGTCTTCCGCTGGACCTCGACCTTGGGCCCTACTCTCAGCGAGCTG
CTAGGGGTGATGAGCCTCCAGAAAGCCCTGCAGCTGAGACTCCAGCCCCGCTGCAAAACCCCCAGCCC
CTACTGCAAAACCCACGGGTCTGCTGCAAACCCCCAGCCACTACTGCAAAACCCCCAGCGCCTGCTGC
AAACCCCTCAGCACCTGCCGCAACCCACGGGTCTGCTGCAAATCCCCAGCCCTGCCGCAAGCTCC
ACACCCATGGACTGTCCCAATGGGGTAACAGCTGGGTTGGGCCAGTGGGTGAGGTGAAGTCCAGCC
CAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGGATGG
CGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCAAGCCCGGGCTCC
TGGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGCAGGACCCAGTGCCACGACAGTGC
AAGCAAACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGA
```



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_152243 unedited            NNCCATTATTACCCCGCCGTTGCCGCAAAGGGCGGTAGGCGGTACGGTGGGAGGTCT            ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAG            CGGCCGGAATTCGGCACGAGGGGACTCTCCCGGGCTGCCAGCCGGGACGCGGGCCGCC            GCCGCTGCAGACGACGAGTCCGCCTCGTCCCGCGCCCCGGGGCTCGCGGAGCCAGGTC            TCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTCTTTCTCTGCGCTTGAACA            TCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCTGGGAGAGACGAGCCATGAACCC            CCCACAGCCTCTGCATTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCA            GGGCAAAGGAGCTGAGCAGCCATCCCAAGCCCAGCCACCTCCCTCCCCGGCCCCCTGGT            AGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGATGCCGGCCCCCAGGGGGGAGAG            GCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCAGTTCACAGG            GAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACCA            TGCATGTGGGCCGTGGCGNGATGTCTTCGNGACACGTCCTTCTCAGCAACCACGGTG            GCAGCTCCGGGAGACCCATCGCTCACCCGCGAGTTCCTGGCCAAGAAGCTGCANCTGT            GCGGAGGNTGGGNNGGCGCCCCCGGNAGATGGGCATCTCCCCTGCACCCTCCCCGG            ATNCAACGGCCATCTNCCCATCATCAAGAGCGCCATCTCCCTGCCCCAGCTCAACCAGG            CCGCCTACACGNNCTTNGTGGNTGGCAGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152243
<b>Insert Size:</b>	2250 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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>	<a href="#">NM_152243.1</a> , <a href="#">NP_689449.1</a>
<b>RefSeq Size:</b>	2135 bp

RefSeq ORF: 1176 bp

Locus ID: 11135

UniProt ID: [Q00587](#)

Cytogenetics: 22q13.1

Domains: PBD

**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]