

Product datasheet for **SC324516**

CDC42EP2 (NM_006779) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP2 (NM_006779) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42EP2
Synonyms:	BORG1; CEP2
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_006779.2
 TGTTCCTCTGGCTGAGGTTGGAGAGGAGGTGTGGTCTCAGCAGGCGGCCCGTAGCCTC
 ACAGCCAGGCCTGGTGGTGAGGTACCATGTCCACCAAGGTGCCATCTATCTGAAGCGT
 GGCAGTCGCAAGGGCAAGAAGGAGAAGCTTCGGGACCTGCTGTCTCGGACATGATCAGC
 CCACCGCTGGGGGACTTCCGCCACACCATTATATTGGCAGTGGCGGGCAGTGACATG
 TTTGGCGACATCTCCTTCTGCAGGGCAAGTCCACCTCCTGCCGGGACCATGGTGGAG
 GGGCCTGAAGAAGATGGCACCTTCGACCTCCCCCTCCAGTTCACCCGCACCCGCCACCGTG
 TGTGGGCGGGAGCTCCCGGACGGCCATCCCCTCTGCTCAAGAACGCCATCTCCCTCCCG
 GTTATCGGTGGACCCAGGCTCTCACCTGCCACAGCCAGGCTCCACCCAAGCCCCCT
 CGCCTGCACCTGGAGACCCCTCAGCCTTCCCCACAGGAGGGAGGGAGTGTGGACATCTGG
 AGGATTCCAGAGACTGGCTCCCCAACAGTGGACTGACCCCGGAGTCAAGGGCCGAGGAG
 CCCTTCTGTCCAATGCCAGCTCCCTGTGTCCCTGCACGTGGACCTGGGGCCTTCCATC
 CTGGATGATGCTCAGATCATGGATCAGGACCTGGACAGCATGCAGATCCCCACATAG
 GACACGAGGCTGCCTAGGCTGGGGTCCCAGGTGGGGCCAGCCAGGAGTGGGGTGTGGA
 CCCGGCCCTGGCGGGGAGTCAGGGTCCAAGATCCCACCTGTATGGTCGCTGGCCAGTG
 ATTCTCCTTCTGAGCCGTGTTTCCCTCTCCCTCCCTCTCCACGTGGGCAGGGCAGGCC
 CATCGCTTTCCTCTGATAACCACATGGACACATCCTGAAGTCAGCCCAGGCGCCCTGAGC
 ATCTTGGGGCACCTGGACCCCATCAATACTCCTTCTTCTTTCAGGTCCCTGGGTGAAG
 GCTTTGTGAAACCGACCCCTTTTACAGTCCCTTCTGCCTCTGCCCGTTGGATGCC
 TGACTGGGGCAGGGGAAGACAGGGCACAGCTGGCCACAGGGCTCAGCCACTGAGCAG
 GCTGTTCCGGGCTTTGGCTTTGCATCCTGGACGGGAGTGTCTGTGAGGGACAGATG
 TGTCTGCCTCATCCCTAGTCCAATCCCTTCCCACGTGACCCGGGATTCTGGTTGCAA
 TAAACATGCTGCTGCTGGTGGCGGAGCTCCCTGTCCCTTGGCCAGGTTTCTCCCGG
 AGGCAGACAGTCTCCAGAGCTGAGGGCTTGCCTCTGGAGACCCAGCCAGCCAGAGGGCTT
 TGTGGAGGACAGGCTTGCCTCAAGAACGTCGTACCTGACGCTGAGCCTGTCATGAGAA
 TGCAACAGGAGCAAACCAAGTGTGCTGTGACATTGATTAGATGTTGGCAAGAGGTGG
 CTGAGCACTGGGGTGGGCTTGGCACTGTGCCAAGCCTGGGGCCAATCCCTGCCAGTCAG
 CTGGGGTCTGGTGGGGGACACCCAAGAATAAAAGAATAACCACAAAGTGTGCAAGGGAAA
 AAAAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_006779
- 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_006779.2](#), [NP_006770.1](#)

RefSeq Size: 2001 bp

RefSeq ORF: 633 bp

Locus ID: 10435

UniProt ID: [O14613](#)

Cytogenetics: 11q13.1

Domains: PBD

Gene Summary: CDC42, a small Rho GTPase, regulates the formation of F-actin-containing structures through its interaction with the downstream effector proteins. The protein encoded by this gene is a member of the Borg family of CDC42 effector proteins. Borg family proteins contain a CRIB (Cdc42/Rac interactive-binding) domain. They bind to, and negatively regulate the function of CDC42. Coexpression of this protein with CDC42 suggested a role of this protein in actin filament assembly and cell shape control. [provided by RefSeq, Aug 2011]