

## Product datasheet for **SC115843**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115843 sequence for NM_006779 edited (data generated by NextGen Sequencing) ATGTCCACCAAGGTGCCCATCTATCTGAAGCGTGGCAGTCGCAAGGGCAAGAAGGAGAAG CTTCGGGACCTGCTGTCCCTCGGACATGATCAGCCACCGCTGGGGACTTCCGCCACACC ATTCATATTGGCAGTGGCGGCGGCAAGTACATGTTTGGCGACATCTCCTTCTGCAGGGC AAGTTCCACCTCCTGCCGGGACCATGGTGGAGGGCCTGAAGAAGATGGCACCTTCGAC CTCCCCTTCCAGTTCACCCGCACCGCCACCGTGTGTGGCGGGAGCTCCCGGACGGCCCA TCCCCTCTGCTCAAGAACGCCATCTCCCTCCCGTTATCGGTGGACCCCAAGGCTCTCACC CTGCCACAGCCAGGCTCCACCCAAGCCCCCTCGCCTGCACCTGGAGACCCCTCAGCCT TCCCACAGGAGGGAGGGAGTGTGGACATCTGGAGGATCCAGAGACTGGCTCCCCAAC AGTGGACTGACCCGGAGTCAGGGGCCGAGGAGCCCTTCTGTCCAATGCCAGCTCCCTG CTGTCCCTGCACGTGGACCTGGGCCTTCCATCCTGGATGATGTCTGCAGATCATGGAT CAGGACCTGGACAGCATGCAGATCCCCACATAG  Clone variation with respect to NM_006779.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006779 unedited</p> <p>TGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCGAGCGACAAATTGCATGT          TTGTCAGCATGGCCCCAGGCCTGGCATGGTTGACACAGGATGAATGCGTGACGGGATTC          CAAGACCTCAGGGTGCCCATGCGTCCCCACCCTCCCCAGCTCCTTGCAAGCTGAGCTG          GATTTCCGCCACGGGAGAGTCATTCCTTTGTTTCTGTAAAGCTCCAGGTGCTCTGGGAG          GGCTCCTCAGCCCTGGACCGGGACAAGTAACCCTCGGTGACAAGACAAAGTGCCTGC          TGCCCCACACAGTTCTACCTTTCTGGCTTCAATTCTTCAGAAGAGTTTGCCGCTCCTTTGG          GGAGAACGTGATTTTTGTTATCTCAGCCCACTGACTTCATTGATCTCTAATCTTTTTTAA          TTCTTTGGGCCAACTTTGTTCGTGCCCCACACTGTAGCCAGAAGCCCGTTGGCGAGCTC          TGGCACCTGCAAACCACCCCGTGAACGAGTGTTTCTCTGGCTGANGGTTGAGAGGAGA          NNNNTGTGGTCTCAACAGGCGGCCCGTAGCCTCAAGCCAGCCTGTGGNGGAGGTACCA          TGTCCACCAAGGTGCCCATCTATCTGAACGNGGGCAGTCGAAGGGCAAGAAGGAGAAG          CTTCCGGGACCCTGCTGCTCGGACATGATCAGCCACCAGCTGGGGGACTTCCGCCAC          ACCATTATATTGGCAGTGGCGGCGGAGTGACATTGGTTTGGGACATCTTCTCCTG          CAGGGCAAGTTCCACTCCTGGCGGGACATGGGGGGGAAGGGCCTGAAAAAGAAGGGACCT          TCGACCTCCCCCTCAGTTACCCGCACCCGACGGGGGGGGGGCGGACTTCCGGGACGGC          CATCCCTTTGTTAAGACGCAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006779 unedited</p> <p>TTCTAAGAAGNNAGAAATCTTGTTCGNAACCCCGTCCGTGGGGGAAGGATTGGAGCT          AGGGATGAGGCAGGACACATCTGGTCCCTGCACAGGACACTCCCCGTCCAGGATGCAAAG          CCAAAGGCCCGGAACAGCCTGCTCAGTGGCTGAGCCCTGTGGCCAGCTGTGCCCTGTCTC          TTCCCCTGCCCCAGTCAGGGCATCCAACGGGGCATAGGCAGAAGGGACGTGAAAAGGGG          GGTCCGTTTCAGCAAAGCCTTACCCCCACGGACCTGAAGGAAGAAGGAGTATTGTGATGG          GGTCCAGGTGCCCAAGATGCTTATGGCGCCCTGGGCTGACTTACGATGTGTCCATGTG          GTTATCAAAGGAAAGCGATGGGGCTGCCCTGCCACGTGGAGAGGGAGGGACAGGGGAA          ACACCGCTCATAAGGAGAATCACTGGCCAGCGACCCTACACGTGGGATCTTGGGACCCTG          ACTCCGACGTGAGGGCCGGTCCACACCCACCTCCTTGTGGGGCCCACTGGGACCC          AAACCTAAGCAGCCTCGTGTCTATGCGGGATCCGAAGCTGTCCCGCCTGTGACCCATC          TCTCGCGCCCTCTCCACCACGGAAGGTCTCCTTCCCCTCCAGGGACACCACGGTCTT          GCTCTTACCACACTCAGGTATCTTTACCCCTGATTCGCGGTTTCATCCACTGTGCGGCCCC          CATCCCTCCGGCCCCCTCCCATGCCACCTCCCCTCCTTCCCTCTCGACATGCTCTCGT          TCTTCCCCTGTGCCAGCTCTGCGCCCTCCTCGCTCGCGTCTGCCCCGACGTGCTCTCAC          AAACCTTGCTCCACCGCTCACCGTCTGAACACTGCTCCCCTCCATACCTAGACCTGCGCT          CTGTATTCAATCCCCACCCACCCCTCTTGATGCGGGC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006779
<b>Insert Size:</b>	1900 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).

**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]