

Product datasheet for **SC116073**

CDC42EP3 (NM_006449) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP3 (NM_006449) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42EP3
Synonyms:	BORG2; CEP3; UB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116073 sequence for NM_006449 edited (data generated by NextGen Sequencing) <pre> ATGCCAGCCAAGACCCCAATTTACCTGAAAGCAGCCAATAACAAGAAAGGAAAGAAATTT AAACTGAGGGACATTCTGTCTCCTGATATGATCAGTCCCCCGCTTGGAGACTTTTCGCCAC ACCATCCACATTGGCAAAGAGGGCCAGCACGATGTCTTTGGAGATATTTCTTTCTTCAA GGGAACACTACGAGCTTTTACCTGGAAACCAGGAGAAAGCACACCTGGGCCAGTTCCCTGGG CATAATGAGTTCTTCCGGGCCAACAGCACCTCGGACTCTGTGTTACAGAAACGCCCTCC CCGGTGCTCAAAAATGCCATCTCCCTCCCGACCATTTGGAGGATCCCAAGCTCTCATGTTG CCCTTATTGTACCAGTGACATTTAATTCCAAACAGGAGTCCTTCGGGCCAGCAAAGCTG CCCAGGCTTAGCTGCGAGCCCGTCATGGAGGAAAAAGCTCAGGAGAAAAGCAGTCTGTTG GAGAATGGGACAGTCCACCAGGGAGACACCTCGTGGGGCTCCAGCGGTTCTGCATCTCAG TCCAGCCAAGGCAGAGACAGCCACTCCTCCAGCCTGTCCGAACAGTACCCGACTGGCCA GCCGAGGACATGTTTGACCATCCACCCCATGCGAGCTCATCAAGGGAAGACTAAGTCA GAGGAGTCCCTCTCTGACCTTACAGGTTCCCTCCTCTCCTCGCAGCTTGATCTTGGGCC TCACTTTTGGATGAGGTGCTGAATGTAATGGATAAAAAATAAGTAA </pre>

Clone variation with respect to NM_006449.3


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006449 unedited
TCAAAATCTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGGGATGATGTAA
CTGGCTCTCTAGGAAGCCTCACTTGCCGTAACCTCAGGAAGTTCTCTTTGACCCCATC
TCATTTGGAAGCCACTTCTGANAGCCACTTGAGAAAAATGATGTGACAGTTCTTATCAAA
AAGGATTGAGAAACATATACCATCTGTGAAGAAAGTGGTCTTTCTCCGCTTGCAAAAT
AGACATTCTCAAATTCAAAAATGCCAGCCAAGACCCCAATTTACCTGAAAGCAGCCAATA
ACAAGAAAGGAAAGAAATTTAACTGAGGGACATTCTGTCTCCTGATATGATCAGTCCCC
CGCTTGGAGACTTTCGCCACACCATCCACATTGGCAAAGAGGGCCAGCAGCATGTCTTTG
GAGATATTTCTTTCTTCAAGGGAACACGAGCTTTTACCTGGAAACAGGAGAAAGCAC
ACCCGGGCCAGTTCCTGNGCATAATGAGTTCTTCCGGGCCAACAGCACCTCGGACTCTG
TGTTACAGAAACGCCCTCCCGGTGCTCAAAAATGCCATCTCCCTCCCGACATTGGAG
GATCCCAAGCTCTCATGTTGCCCTTATTGTACCAAGTACATTTAATTCAAACAGGAGT
CCTTCCGGCCAGCAAAGCTGCCAGGCTTAGCTGCGAGCCCGTCATGGANGAAAAAGCTC
ANGAGAAAAGCAGTCTGTTGGAATGGGACAGTCCACCAGGGAGACACCTCGTGGGGCT
CCAGCGNCTTGATCTCAGTCCAGCCCAAGCAGAGACAGCCACTTCTCCAGCCTGTCCG
AACAGTACCCCCGACTGGCCAGCCGAGGAACATGTTGACCATCCCNACCATGCCAGCTC
ATCAGGGAAGACTAAGTCAGAGGAGTCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006449 unedited
TACAAACCTCGGGGNCGAGAAAAATCCCTTTTTTTTTTGAATTTTCTATTTTATTTTTT
TAATCTCATCAACTATGGGTAGTGTTAGTGTGTTTACATGTGGCCCAAGAAAATCTTC
CAATGCGGTCCAGGAAGCTAAATATTGGACACCCTGCCTAGGGGAAGTTGTTTCGTC
TACTTGGGTAGGGTCTAATTGTTTTTACCTGCAGTCCAAAGTTATTTTAGATGATA
GAACTGCAAGAACCCCAACCCAAAGAAAGAAATCGTTGAAGTGGTTGGGAGAGGAGTCA
TTTCTGAGATACATTTCCAGGAGAAATACAAGTTTGAGAGAAGGAGCTGGTAGTTACTGT
GTGCAAGTGTTTTTCTTTGATGGGAAGGAGTTGTTGGCAAAGGGACAGGAATCTGTGTG
TACATTTCTGCTCCTGTTTCTTAACCACCATCTCAGGGCATCTCTGGCACCTTGGGG
TCGGGTAAGTGCTCTCTACTGCCTCGTTTTAACTGCCTTTATCTCGTCTATATGGCACT
TTCTGCGCTAAAAGACATTTGCCTTACAGGGATGAACTGGACTTGCAAGAGTTTGCTGT
ACAAGGCGTTCAAGTCAGGAAGATGCTCAGAAATGACCACTGAGAGGGTGGCATCAGCGC
TGACTTAAAAAATCTGACCTCAGATGTGATTTTCCAAAGCAAGAG
GCTCAGTTTCTATCTCTCAAAACATAAGGAAGTAATCAAAATGAGAGTAGATGGAAATC
ATCTCTTACCTTAAAGGCTTATGGACCTTTCACAGAAGCATTCCCTAGCTATACTTATT
CTCTTATGGCCTGGGTATTACTATAAACAAGCAGTTCACTTTATCATTACCTTTTATCG
GGTGCCTGAATTCACCTATGTATGCAAGCTGCACCGGCTATATAACTCATTTCCTCAAT
ACATATGCGGCGGACGCCCAATTCATN

Restriction Sites:

NotI-NotI

ACCN:

NM_006449

Insert Size:

2770 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:	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_006449.3, NP_006440.2</u>
RefSeq Size:	3981 bp
RefSeq ORF:	765 bp
Locus ID:	10602
UniProt ID:	<u>Q9UKI2</u>
Cytogenetics:	2p22.2
Domains:	PBD
Gene Summary:	This gene encodes a member of a small family of guanosine triphosphate (GTP) metabolizing proteins that contain a CRIB (Cdc42, Rac interactive binding) domain. Members of this family of proteins act as effectors of CDC42 function. The encoded protein is involved in actin cytoskeleton re-organization during cell shape changes, including pseudopodia formation. A pseudogene of this gene is found on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012] Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3, and 4 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.