

Product datasheet for SC111209

CDC42EP4 (NM_012121) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP4 (NM_012121) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42EP4
Synonyms:	BORG4; CEP4; KAIA1777
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111209 sequence for NM_012121 edited (data generated by NextGen Sequencing)

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ATGCCAATCCTCAAGCAACTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGAGCG
GACCTCACGGCCGAGATGATCAGCGCCCGCTGGGCGACTTCCGCCACACCATGCACGTT
GGCCGGGCGGAGACGCCTTTGGGGACACCTCCTTCTCAATAGCAAGGCTGGCGAGCCC
GACGGCGAGTCTTGGACGAACAGCCCTTCTTTCATCTTCCAAACGCAGTCTCCTGTCC
AGGAAGTTCGGGGCAGCAAGCGGTCACAGTCCGTGACCAGGGGGGAGCGGGAGCAGCGT
GACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCATGTCCCTGCC
CAGCTCAATGAGAAGGAGGCCGCGGAGAAGGGCACCAGTAAGCTGCCAAGAGCCTGTCA
TCCAGCCCGTGAAGAAGCCAATGACGGGGAGGGCGGCGATGAGGAGGGCGGCACGGAG
GAGGCAGTGCCCGTCCGAATGGGGCCGCGGGTCCACATTCCCTGACCCCTCCTCGAT
GAGCAGGCCTTTGGGGATCTGACAGATCTGCCTGTCTGTGCCAAGGCCAGTACGGGCTG
AAGCATGCGGAGTCCATCATGTCTTCCACATCGACCTGGGGCCCTCCATGCTGGGTGAC
GTCCTCAGCATCATGGACAAGGAGGAGTGGGACCCCGAGGAGGGGGAGGGTGGTTACCAT
GGCGATGAGGGGCGCCGCTGGCACCATCACCCAGGCTCCCCGTACGCCGTGGCGGCCCT
CCCCTGGCAAGGCAGGAAGGCAAGGCTGGCCCAGNCTTGCCCTCCCTCCCTCCCATGCT
CTGGAGGATAAGGGGTGGGCAGCAGCGGCCCCAGCCCCGGCTCAGCCCCGAGCATGGGC
AGCCACACCACACGGGACAGCAGCTCCCTCTCCAGCTGCACCTCAGGCATCCTGGAGGAG
CGCAGCCCTGCCTTCCGGGGCCGACAGGGCCCGGGCTGCTGTCTCAAGACAGCCAGAC
AAGGAGTCTCCTTCATGGATGAGGAGGAGGATGAAATCCGTGTGTGA

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Clone variation with respect to NM_012121.4
815 a=>n;850 g=>a



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012121 unedited TCACGAGGCCAGCCGGGTTACAAAAGTCCCCCTGCCCGCGCGTCCCCAGGAGC CATCTGCCCGCGGGATCCCGTCAGCCGCCTTATGATCTCCTCATTGCGTCCCCCTCTG CCCACTGGACTTGGACTTCAGATCTGACCCAGACCTGCCGGCTACCTCGGGAGGGCCCA CCTCCCGCCCATCCAGCAAGATGCCAATCCTCAAGCAACTGGTGTCCAGCTCGGTGCAC TCCAAGCGCCGTTCCCGAGCGGACCTCACGGCCGAGATGATCAGCGCCCCGCTGGGCGAC TTCCGCCACACCATGCACGTTGGCCGGGCGGAGACGCCTTTGGGGACACCTCCTTCCTC AATAGCAAGGCTGGCGAGCCCGACGGCGAGTCTTGGACGAACAGCCCTTCTTTCATCT TCCAAACGAGTCTCCTGTCCAGGAAGTTCGGGGCAGCAAGCGGTCACAGTCGGTGACC AGGGGGGAGCGGGAGCAGCGTGACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTC AAGAATGCCATGTCCTGCCCGAGCTCAATGAGAAGGAGCGCGGAGAAGGGCACCAGT AAGTGCCCAAGAGCCTGTCA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012121 unedited ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTCTTTAAGGCTTTTT TTTTAAATGTTTTCTCACTGTTTTGACAATATCATGAAAAAATCAGTTTAAAATCTGGA ATTGGCCTGGACGGGATTCGAGGGCACCTGGCGGGGCTGCATAACCCCTGAGGTTCCCTC CCCCACCATGGGACCTAAGCTATTGAAACAGGAGCACCAACAGGGCACCGAACCTGGAA CTAAGCTACCGCTACAGCCACGCACCATAGGATAGTCCCGCAACACAGGAAGGGCCCGG TCAAACACCCCTGGCGACGATAACCGGCTGCTTCAGCCCCACCACCCCATCAGCCCCC TAACCGACTATTGACAGTTCTTCTTTTGCCTCCTTATTCACACTCCCATTACCTTCTCC CGACTACTTTATGCTCTTCCGACTCTCCCCCATTATTACCCGATAAATGCCATCACA CTGCCCCCTCCAGCGCGACGCAATCAACAAAGTACATGAAAATTTTACCAGCACCACC ATGACACACACATGTTCCACTTACTTTGCCTACTCCATGTTCCCTTATTATCACCCCC AATCCCCAACATATCAACCTTATACATACCCCCCCTCTCATCCCCACACTCCACCGAA TCTATCGTTCACTTAAGTTTTCTTAGTGTCTGCGCGTAGATTACTCCATTCCCAAT ACATACAACATTAATTAGATCCATGAAAACCCCGCGCCGATAAAGTAANCTATACTCTA ACCCTAGCCGATTAACACCATACTTAACCACGCATATACTAATCCCCTACCCCGACCTA CTCCCCTCCTCCTCACCAACAACCAATGAATTACCATAACCTCTCACAATCCACCA TCAATACCTCCCGTATTGCCATATCACTCCACATN
Restriction Sites:	NotI-NotI
ACCN:	NM_012121
Insert Size:	3180 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:	<ol style="list-style-type: none"> 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_012121.4](#), [NP_036253.2](#)

RefSeq Size: 3121 bp

RefSeq ORF: 1071 bp

Locus ID: 23580

UniProt ID: [Q9H3Q1](#)

Cytogenetics: 17q25.1

Domains: PBD

Gene Summary: The product of this gene is a member of the CDC42-binding protein family. Members of this family interact with Rho family GTPases and regulate the organization of the actin cytoskeleton. This protein has been shown to bind both CDC42 and TC10 GTPases in a GTP-dependent manner. When overexpressed in fibroblasts, this protein was able to induce pseudopodia formation, which suggested a role in inducing actin filament assembly and cell shape control. [provided by RefSeq, Jul 2008]