

Product datasheet for **RG201162**

CDC42EP4 (NM_012121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP4 (NM_012121) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC42EP4
Synonyms:	BORG4; CEP4; KAIA1777
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201162 representing NM_012121 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCCAATCCTCAAGCAACTGGTGTCCAGCTCGGTGCACTCCAAGCGCCGTTCCCGAGCGGACCTCACGG
CCGAGATGATCAGCGCCCCGCTGGGCGACTTCCGCCACACCATGCACGTTGGCCGGGCCGGAGACGCCTT
TGGGGACACCTCCTTCTCAATAGCAAGGCTGGCGAGCCGACGGCGAGTCCTTGGACGAACAGCCCTCT
TCTTCATCTTCCAACGCAGTCTCCTGTCCAGGAAGTTCGGGGCAGCAAGCGGTACAGTCGGTGACCA
GGGGGAGCGGGAGCAGCGTGACATGCTGGGCTCCCTGCGGGACTCGGCCCTGTTTGTCAAGAATGCCAT
GTCCCTGCCCCAGCTCAATGAGAAGGAGGCCGCGAGAAGGGCACCAGTAAGCTGCCAAGAGCCTGTCA
TCCAGCCCCGTGAAGAAGGCCAATGACGGGGAGGGCGGCATGAGGAGGCGGGCACGGAGGAGGCAGTGC
CCCGTCGGAATGGGGCCGCGGGTCCACATTCCTGACCCCTCCTCGATGAGCAGGCCTTTGGGGATCT
GACAGATCTGCCTGCTGCTGCCAAGGCCACGTACGGGCTGAAGCATGCGGAGTCCATCATGTCTTCCAC
ATCGACCTGGGGCCCTCCATGCTGGGTGACGTCTCAGCATCATGGACAAGGAGGAGTGGGACCCCGAGG
AGGGGAGGGTGGTTACCATGGCGATGAGGGCGCCGCTGGCACCATCACCCAGGCTCCCCGTACGCCGT
GGCGGCCCTCCCCTGGCAAGGCAGGAAGGCAAGGCTGGCCAGACTTGCCTCCCTCCCCTCCCATGCT
CTGGAGGATGAGGGGTGGGCAGCAGCGGCCCGCCAGCCCGGCTCAGCCCGCAGCATGGGCAGCCACACCA
CACGGGACAGCAGCTCCCTCTCAGCTGCACCTCAGGCATCCTGGAGGAGCGCAGCCCTGCCTTCCGGGG
GCCGGACAGGGCCCGGGTGTCTGTCTCAAGACAGCCAGACAAGGAGTTCTCCTTCATGGATGAGGAGGAG
GAGGATGAAATCCGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201162 representing NM_012121
 Red=Cloning site Green=Tags(s)

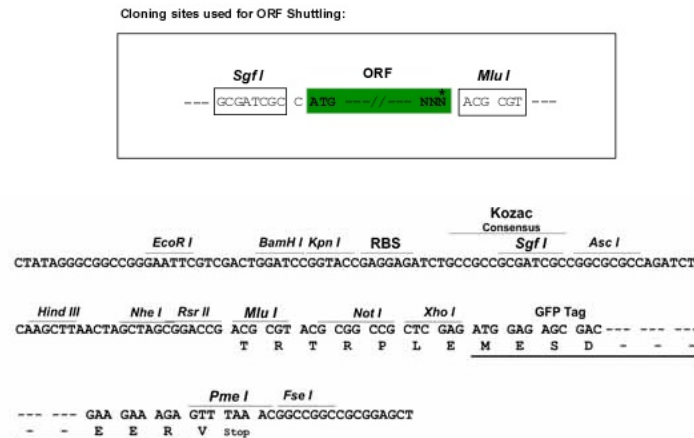
MPILKQLVSSSVHSKRSRADLTAE MISAPLGDFRHTMHVGRAGDAFGDTSFLNSKAGEPDGESLDEQPS
 SSSSKRSLLSRKFRGSKRSQSVTRGEREQRDMLGSLRDSALFVKNAMSLPQLNEKEAAEKGT SKLPKSL
 SSPVKKANDGEGGDEEAGTEEA VPRRNGAAGPHSPDPLLD EQAFGDLTDL PVVPKATYGLKHAESIMSFH
 IDLGPSMLGDVLSIMDK EEWDPEEGEGGYHGDEGAAGTITQAPPYAVAAPPLARQEGKAGPDLP SLP SHA
 LEDEGWAAAAAPSPGSARSMGSH TTRDSSSLSSCTSGILEERSPAFRGPDRARA AVSRQPDKEFSFMDEEE
 EDEIRV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_012121

ORF Size: 1068 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_012121.5](#)

RefSeq Size: 3121 bp

RefSeq ORF: 1071 bp

Locus ID: 23580

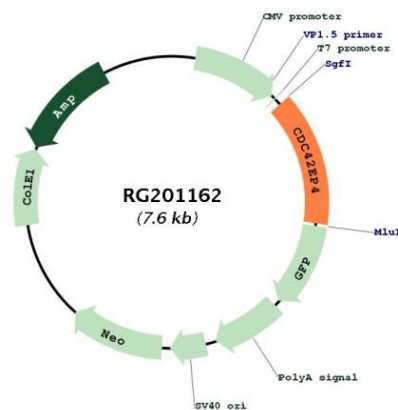
UniProt ID: [Q9H3Q1](#)

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]

Product images:



Circular map for RG201162