

Product datasheet for **RG203483**

CDC42EP1 (NM_007061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP1 (NM_007061) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDC42EP1
Synonyms:	55 kDa bone marrow stromal/endothelial cell protein; BORG5; CDC42 effector protein (Rho GTPase binding) 1; CDC42 effector protein 1; CEP1; CEP1, BORG5, MSE55, MGC15316; MGC15316; MSE55; OTTHUMP00000028709; serum constituent protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG203483 representing NM_007061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCCCCAGGGGGCAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGG
 TGTCCAGTTCACAGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCA
 CACCATGCATGTGGGCCGTGGCGGGATGTCTTCGGGGACACGTCTTCTCAGCAACCACGGTGGCAGC
 TCCGGGAGACCCATCGCTCACCCGCAGCTTCTGGCCAAGAAGCTGCAGCTGGTGCAGGAGGTGGGGG
 CGCCCCCGGAGGATGGCATCTCCCCGCACCTCCCCGGCTCCACCGGCCATCTCCCCATCATCAA
 GAACGCCATCTCCCTGCCCAGCTCAACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTC
 GACAGCAGCCCCACCAGCTCCACGGACGGCCACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCT
 CCCGCCTGCCCGCTCGAAAAGCCGATGACCGAGACCGGGATGGTTCCTTCCCCTCTGAGCCCGGGCT
 TCGCCGCTCTGACTCTCTTGTCTTCCGCCTGGACCTCGACCTGGGCCCTCACTCTCAGCGAGCTG
 CTAGGGGTGATGAGCCTGCCAGAAGCCCTGCAGCTGAGACTCCAGCCCCGCTGCAAACCCCCAGCCC
 CTAAGCAACCCACCGGTCTGCTGCAAACCCCCAGCCACTACTGCAAACCCCCAGCACCTGCCGC
 AACCCCCACGGTCTGTGCAATCCCCAGCCCTGCCGAAGCTCCACACCCATGGACACTGTCCC
 AATGGGGTAACAGCTGGGTTGGGCCAGTGGCTGAGGTGAAGTCCAGCCAGTGGGAGGGGTCCCCGAG
 GACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGGATGGCGGCCACCACTACCCAGAGAT
 GGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCAAGCCCGGCCTCTGGGAGAGCTGGACGAAGAG
 TGGAGGGCGCCCCAGGCAGCAGGACCCAGTGCCCAGCACAGTGAAGCAAACACCTTTGAATTTG
 CGGATGCTGAGGAGGATGATGAGGTCAAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203483 representing NM_007061
 Red=Cloning site Green=Tags(s)

MPGPQGGRGAATMSLGKLSVPVWVSSSQKRRRLTADMISHPLGDFRHTMHVGRGGDVFGDTSFLSNHGG
 SGSTHRSPRSFLAKKLQVRRVGAPPRMASPPAPSPAPPAISPIIKNAISLPQLNQAAYDSL VVGKLSF
 DSSPTSSTDGHSSYGLDSGFCTISRLPRSEKPHDRDRDGSFPSEPLRRSDLLSFRLDLDLGPSLLSEL
 LGVMSLPEAPAAETPAPAANPPAPTANPTGPAANPPATTANPPAPAAATPTGPAANPPAPAAASSTPHGHCP
 NGVTAGLGPVAEVKSSPVGGPRGPAGPALGRHWGAGWDGGHHYPEMDARQERVEVLPQARASWESLDEE
 WRAPQAGSRTPVPSTVQANTFEFADAEEDEVK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_007061

ORF Size: 1152 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_007061.3](#), [NP_008992.3](#)

RefSeq Size: 2131 bp

RefSeq ORF: 1154 bp

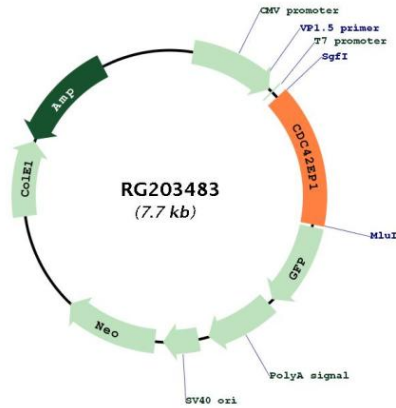
Locus ID: 11135

Cytogenetics: 22q13.1

Gene Summary:

CDC42 is a member of the Rho GTPase family that regulates multiple cellular activities, including actin polymerization. The protein encoded by this gene is a CDC42 binding protein that mediates actin cytoskeleton reorganization at the plasma membrane. This protein is secreted and is primarily found in bone marrow. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203483