

Product datasheet for **MG201066**

Cdc42ep5 (NM_021454) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Cdc42ep5
Synonyms: 1700027J19Rik; 2010007O02Rik; Borg3; C85526; CEP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG201066 representing NM_021454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGTAATGAAGCAGCTGGGCCCTGCACAACCAAGAAGCGGCTGGATCGCGGAGCACTCTCGATCT
CAGCACCCCTCGGAGACTTCAGGCACACATTGCACGTGGGACGCGGTGGCGACGCCCTTCGGGGACACCTC
ATTCTGAGTCGCCACGGGGCGGTCCGCCTCCCGAGCCTGGAGCCCCACCGTTGTGGCCCCACATTCT
GTCGCTCCACCTGCAGCCCCACAGCCCCCTGTGGCTGTGCCTTACCTGCGGACCCGCTGCTGTCTTTCC
ACCTGGACCTGGGCCCTCTATGCTGGACGCGGTGTTAGGCGTCATGGACGCGGAGCGCAGCGAGACAAC
AGCCACCAAGCCCGATGGGGATGCCACCCTAGAGTGCAGCACCCCAAGACCCGCTGCTGCTCAAATGCT
GACCTCCAGCTGGACGACGTCATCGGTCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201066 representing NM_021454
Red=Cloning site Green=Tags(s)

MPVMKQLGPAQPKKRLDRGALSISAPLGDFRHTLHVGRGGDAFGDTSFLSRHGGPPPEPGAPPVVAPH
VAPPAAPQPPVAVPSPADPLL SFHLDLGP SMLDAVLGVMDAERSETTATKPDGDAHPRVQHPKTRCCSNA
DLQLDDVIGL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_021454

ORF Size: 450 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021454.4](#)

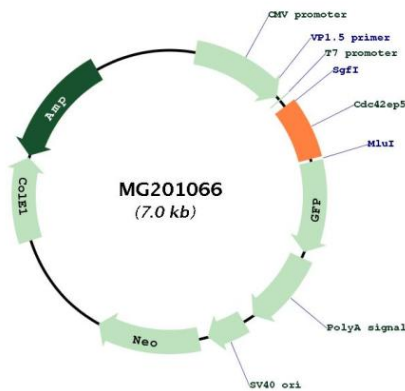
RefSeq Size: 867 bp
 RefSeq ORF: 453 bp
 Locus ID: 58804

UniProt ID: [Q9Z0X0](#)

Cytogenetics: 7 A1

Gene Summary: Probably involved in the organization of the actin cytoskeleton. May act downstream of CDC42 to induce actin filament assembly leading to cell shape changes. Induces pseudopodia formation in fibroblasts. Inhibits MAPK8 independently of CDC42 binding. Controls septin organization and this effect is negatively regulated by CDC42.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201066