

Product datasheet for MR201066

Cdc42ep5 (NM_021454) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cdc42ep5 (NM_021454) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cdc42ep5
Synonyms: 1700027J19Rik; 2010007O02Rik; Borg3; C85526; CEP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201066 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCCGTAATGAAGCAGCTGGGCCCTGCACAACCAAGAAGCGGCTGGATCGCGGAGCACTCTCGATCT
 CAGCACCCCTCGGAGACTTCAGGCACACATTGCACGTGGGACGCGGTGGCGACGCCTTCGGGACACCTC
 ATTCCTGAGTCGCCACGGGGCGGTCCGCCTCCCGAGCCTGGAGCCCCACCGTTGTGGCCCCACATTCT
 GTCGCTCCACCTGCAGCCCCACAGCCCCCTGTGGCTGTGCCTTACCTGCGGACCCGCTGCTGTCTTTCC
 ACCTGGACCTGGGCCCTCTATGCTGGACGCGGTGTTAGGCGTCATGGACGCGGAGCGCAGCGAGACAAC
 AGCCACCAAGCCCGATGGGGATGCCACCTAGAGTGCAGCACCCCAAGACCCGCTGCTGCTCAAATGCT
 GACCTCCAGCTGGACGACGTCATCGGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201066 protein sequence
 Red=Cloning site Green=Tags(s)

MPVMKQLGPAQPKKRLDRGALSISAPLGDFRHTLHVGRGGDAFGDTSFLSRHGGGPPPEPGAPPVVAPH
 VAPPAQPPVAVPSPADPLL SFHLDLGPMSLDVAVLGVMDAERSETTATKPDGDAHPRVQHPKTRCCSNA
 DLQLDDVIGL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_021454

ORF Size: 453 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_021454.4](#)

RefSeq Size: 867 bp

RefSeq ORF: 453 bp

Locus ID: 58804

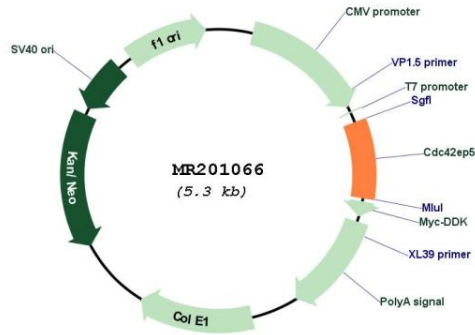
UniProt ID: [Q9Z0X0](#)

Cytogenetics: 7 A1

MW: 15.5 kDa

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 MR201066