

Product datasheet for **RR203980**

Cdc42ep1 (NM_001079700) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc42ep1 (NM_001079700) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc42ep1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203980 representing NM_001079700 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCCCCAAGGGGGCACAGGAGCCCCAGCATGAGCCTGGGTAAGCTGTCTCCTGTGGGCTGGG
TGCCAGTTCTCATGGAAAGAGGCGCTGACAGCAGACATGATCAGTCCCCCGCTCGGGGACTTCCGCCA
CACCATGCACGTGGCCGTGGCGGGACGTCTTCGGTGATACCTCCTTCCAGCAACCAGGAGGCCGC
TCTGGAAACACCCACCGCTCGCCCCGAAGTTTTCTGGCCAGGAAGCTCCAGCAGGTACGCAGAGTCGGCG
TGCCCCCTCGAAGGATGGCTTCCCCGGTGCAACGTACCCGCCCCGCCTCCCATCTCTCCATCATCAA
GAATGCCATCTCCTGCCAGCTCAACCAGGCCACCTATGACAGCCTGGTGGTGGAGCAAGCTGAGCTTT
GATAGCACTCCGGTAGCTCCACGGATGGCCGCTCCGGTACGGCCTGGAGTCTGGGTTCTGCACCATCT
CACGCCTTCCACGAGTGGAAAAACACAGCAGCCGTGACCGTGACCATGACCGTGACCCGGACATTCTCA
AGACCGAGAGCAAAGTTCTTCCCCCTGAGCCTAACCTAACCTGAGCTTCGACGCTCTGACTCTCTC
TTGTCCTCCGTTTTGACCTTGACCTTGGGCCCTCACTCCTCAGTGAGCTGCTAGGAGTCATGAGCCTT
CAGAAGCCCTGCTGCCAACCCCTGCTCCTGCTGCCAACCTGCCCTACTGCAAACCCCGAGCCGA
TGCAAGTAACTCTAGACACTGTGACAAGCCTTCCAGCCCCACGGCAAGCTCCCCATCCAGTGGACGT
TTCCCCAATGGGGTAACTGCCGTGTGGCCCCGTGGCTGAGGTAAGGCCAGTCCTGTGGGAGAGGGTC
CCCAGGTACCCTCCAAAATGGCCTTTGACAGGCGTGGAGCCAGCTGGGGGGCCATCCGGGCCAGCCGTCA
CTACACGGAGATGGATGCGCGGGGGAGCTGGCAGGGGTCTACCCCAAGTCCATGGCTCCTGGGAGAGT
CTGAATGAAGAATGGAGTGACCTCCGGCCAGCAGAGGGCTCCTGTGCCAGCAGGTCAGGCCAATG
CCTTTGAGTTGCTGACGCTGATGAGGATGACGAGGTCAAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203980 representing NM_001079700
 Red=Cloning site Green=Tags(s)

MPGPQGGTGAPMSLGLKSPVGVWVSSHGKRRLTADMISPPLGDFRHTMHVGRGGDVFGDTSFLSNHGGR
 SGNTHRSRPSFLARKLQQVRRVGVPPRRMASPAATSPAPPPISPIIKNAISLPQLNQATYDSL VVSKLSF
 DSTPASSTDGRSGYGLSEGFCTISRLPRVEKHSSRRDRDHRDPDHSQDREQSSSPSEPNPNPELRRSDSL
 LSFRRFDLGLPSLLSELLGVMSLSEAPAANPPAPAANPAPTAKPPADAVTTLDTVTSLPAPTASSPSSGR
 FPNGVTAVLGPVAEVKASFPVGEQPQVPSKMAFDRRGASWGAIASRHYTEM DARRELAVLPQVHGSWES
 LNEEWSAPPASSRAPVPSTVQANAFEFADADEDEVKV

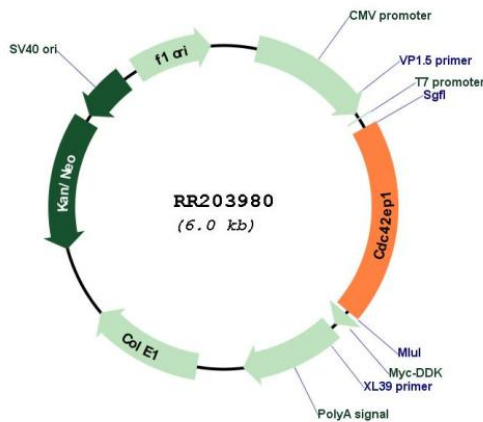
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001079700

ORF Size:	1164 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:	<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_001079700.1 , NP_001073168.1
RefSeq Size:	2263 bp
RefSeq ORF:	1167 bp
Locus ID:	315121
UniProt ID:	A1A5P0
Cytogenetics:	7q34
MW:	41 kDa
Gene Summary:	Probably involved in the organization of the actin cytoskeleton. Induced membrane extensions in fibroblasts (By similarity).[UniProtKB/Swiss-Prot Function]