

Product datasheet for **SC321765**

CDC42EP5 (NM_145057) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDC42EP5 (NM_145057) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDC42EP5
Synonyms:	Borg3; CEP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_145057.2

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CGCCCAGAGGGGCTCAGCTTTTCCACCACTGCTTTCTAGTCCTTTAACTCCTAGAGGCA
AACTTTTGGGGGATAAGAAAGCCTGGGAGGGGCTGTGCCAAAACCTCTCTGCCTGGGG
ACTGGGCGGTGATTCCGCTTCTGCCTGGGCTCCTGCCATGGCCCCGAGAGGGGCTGACA
CTTTAGCTCCCGGTGCAGGTGAGAACCCGCCGAGGAAGAAGGAAGGCGGGCGGGG
ATTAGGAGACGGAGGCGGACTCGGAGCCAGGGAACCGGGTCCGGGCTAGAGCTGGAGT
CGTGAGCGCGCGCCCGCCGCTCTGGGAGGACCGGAGATGCCCGTGCTGAAGCAGCTG
GGCCCCGCGCAGCCCAAGAAGCGGCCTGATCGCGGCGCCCTGTCCATCTCCGCGCCGCTC
GGCGACTTCCGGCACACGCTGCACGTGGGGCGCGGCGGCGACGCCTTCGGGGACACCTCG
TTCCTGAGCCGCCACGGCGGCGGGCCGCCCGCCAGCCCCGGGCGCCCCCGGGGGGCC
CCGCGCTCCCCGCGCGCCCGCCGCTCCCGCAGTCCGACGCGCCTCGCCTGCCGACCCG
CTGCTGTCTTCCACCTGGATCTGGGGCCCTCCATGCTGGACGCGGTGCTGGGCGTCATG
GACGCGGCGCGCCCGGAGGCGGCTGCCGCAAGCCCGACGCGGAACCCCGCCCGGGACG
CAGCCCCCCCAGGCCCGCTGCCGCCCAACGCGGACCTCGAGCTGAACGACGTCATCGGC
CTCTAGGTTCCCTCATTCCCCGCGCCCTTCCCGCCCGGACCCCACTTCTGTATACATAA
ACGGCCAAGGTGTGTGCCCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
  
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Restriction Sites: Please inquire

ACCN: NM_145057

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_145057.2 , NP_659494.2
RefSeq Size:	917 bp
RefSeq ORF:	447 bp
Locus ID:	148170
UniProt ID:	Q6NZY7
Cytogenetics:	19q13.42
Domains:	PBD
Gene Summary:	Cell division control protein 42 (CDC42), a small Rho GTPase, regulates the formation of F-actin-containing structures through its interaction with the downstream effector proteins. The protein encoded by this gene is a member of the Borg (binder of Rho GTPases) family of CDC42 effector proteins. Borg family proteins contain a CRIB (Cdc42/Rac interactive-binding) domain. They bind to CDC42 and regulate its function negatively. The encoded protein may inhibit c-Jun N-terminal kinase (JNK) independently of CDC42 binding. The protein may also play a role in septin organization and inducing pseudopodia formation in fibroblasts [provided by RefSeq, Jul 2013]