

## Product datasheet for **RC238874**

### CEP70 (NM\_001288966) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CEP70 (NM_001288966) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEP70
Synonyms:	BITE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC238874 representing NM\_001288966  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTCCGGTAGCCCTAAACCCAGGATTCCAGTCAACCATCAGACAGACTCATGACTGAAAAACAGC  
 AGGAAGAAGCAGAATGGGAAAGCATAAATGTGCTATTGATGATGCATGGCTTAAACCTTTGTCTCTAGT  
 CAAAAGAACAGATCTCAAAGATCTCATCTTTTTGACAAACAGTCATCACAAGGATGAGACAGAATTTG  
 AAATTGTTGGTGAAGAAACATCATGTCAACAGAACATGATACAGGAGCTTATAGAACTAATCAACAGC  
 TTAGAAATGAACTTCAGCTAGAGCAAAGCCGAGCAGCCAATCAAGAACAACGAGCTAATGACTTGGAAAC  
 AATTATGGAAGTGTGAAATCCAAAATTGGTGAATTGGAGGATGAATCACTAAGTAGGGCTTGCCACCAA  
 CAGAATAAAATAAAGATCTTCAAAGGAGCAGAAAACCTTACAGGTGAAGTGCCAGCATTATAAGAAA  
 AACGAACGGAGCAAGAAGAACTATTGCTTCTTGCAAAATGGAAGTCTGTAGATTAAGGAGGGAAGA  
 AGATCGCATTGCTACTCAAACAGAGTGTTCCTATCTGTGAAAAGAGTTCTCATACCGTCTTGGAT  
 AGACAGTTGCTTTGTCTAATTGATTACTATGAATCTAAAATTAGAAAAATTCATACACAAAGGCAATATA  
 AAGAAGATGAAAGTCAGTCAGAAGAAGAAAACGACTACAGAAATCTGGATGCCTACCAACTTATAAAGG  
 CCTTTAATGTCATTACAGAATCAACTCAAGGAATCAAAATCTAAGATTGATGCACTTTCAAGTGAAGG  
 CTGAACCTCCAAAAAGATTTGGAACCAGGCTACGCAGCATGAATTAAGACTTTATAAACAGCAGGTGA  
 AGAAGCTGGAAGGCCCCTTAAGAAAACGTCAAATTACAGGAGCTTATTAATCATAAGAAGGCTGAGGA  
 CACAGAGAAGAAAGATGAGCCCAGCAAAATAATCAGCAACAGGCCCTAATTGACCAGAGATACTTTCAG  
 GTGCTGTGTAGCATCAATTCAATTATCCACAATCCAAGAGCTCCAGTAATAATTTATAAACAGACCAAAG  
 GGGGAGTCCAAAATTTAATAAAGATCTTGTCAAGATTGTGGATTTGAGCATCTTGTTCCTGTAATAGA  
 AATGTGGGCAGATCAACTGACATCCTTAAAGGATTTGTATAAGTCTTGAAAACACTATCTGCAGAACTG  
 GTACCTTGGCTTAATTTGAAGAAGCAGGATGAAAATGAAGGTATCAAAGTTGAAGATTTGTTGTTATAG  
 TAGATACTATGCTGGAAGAAGTTGAAAATAAGGAAAAGGACAGCAATATGCCACACTTTCAAACCTTTGCA  
 AGCTATTGTTTCTCACTTCCAAAAGTTATTTGATGTGCCTTCTTAAATGGAGTCTATCCCCGAATGAAT  
 GAAGTTTATACTAGGCTTGAGAAATGAACAATGCTGTGAGAACTCCAAGAATCTTAGAATTAGATA  
 GTTCATCCTCATTGTGTGTGCTAGTAAGCACTGTTGAAAACCTGTAGGCTGATTAATGAAGATGTGAA  
 TGAGCAGGTTATGCAGGTATTAGACCTGAAGACCTCCAGAGTATTTGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238874 representing NM\_001288966  
 Red=Cloning site Green=Tags(s)

MFPVAPKPDSSQPSDRLMTEKQQEEAEWESINVLLMMHGLKPLSLVKRTDLKDLIIFDKQSSQRMQNL  
 KLLVEETSCQQNMIQELIETNQQLRNELQLEQSRAANQEQRANDLEQIMESVKSKIGELEDLSRACHQ  
 QNKIKDLQKEQKTLQVKCQHYKKRTEQEETIASLQMEVCRLKKEEEDRIVTQNRVFAYLCKRVPHTVLD  
 RQLLCLIDYYESKIRKIHTQRQYKEDESQSEENDYRNLDASPTYKGLLSLQNLKESKSKIDALSSEK  
 LNLQKDLERPTQHELRLYKQVKKLEKALKKNVKLQELINHKAEDTEKKDEPSKYNQQALIDQRYFQ  
 VLCSINSIIHNPAPVVIYKQTKGGVQNFNKDLVQDCGFEHLVPVIEMWADQLTSLKDLYKSLKTLSAEL  
 VPWLNKQDENEGIKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAIVSHFQKLFDPVPSLNGVYPRMN  
 EYVYTRLGEMNNAVRNLQELLELDSSSLCVLVSTVVKLCRLINEDVNEQVMQVLPEDLQRYLF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001288966

**ORF Size:** 1662 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\\_001288966.1](#), [NP\\_001275895.1](#)

**RefSeq Size:** 2187 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 80321

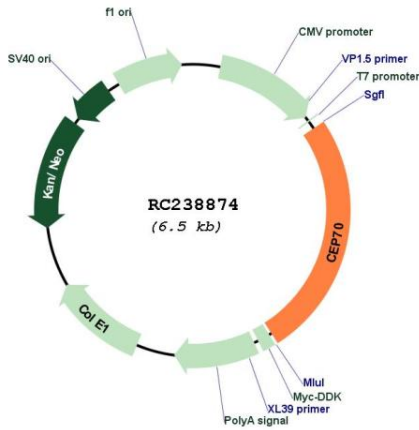
**UniProt ID:** [Q8NHQ1](#)

**Cytogenetics:** 3q22.3

**MW:** 65.3 kDa

**Gene Summary:** Plays a role in the organization of both preexisting and nascent microtubules in interphase cells. During mitosis, required for the organization and orientation of the mitotic spindle. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC238874