

## Product datasheet for **RG205474**

### CEP70 (NM\_024491) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CEP70 (NM_024491) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CEP70
Synonyms:	BITE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205474 representing NM\_024491  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTCCGGTAGCCCTAAACCCAGGATTCCAGTCAACCATCAGACAGACTCATGACTGAAAAACAGC  
 AGGAAGAAGCAGAATGGGAAAGCATAAAATGTGCTATTGATGATGCATGGCTTAAAACCTTTGTCTCTAGT  
 CAAAAGAACAGATCTCAAAGATCTCATCTTTTTGACAAAACAGTCATCACAAGGATGAGACAGAATTTG  
 AAATTGTTGGTGAAGAAACATCATGTCAACAGAACATGATACAGGAGCTTATAGAACTAATCAACAGC  
 TTAGAAATGAACTTCAGCTAGAGCAAAGCCGAGCAGCCAATCAAGAACAACGAGCTAATGACTTGGAAAC  
 AATTATGGAAGTGTGAAATCCAAAATTGGTGAATTGGAGGATGAATCACTAAATAGGGCTTGCCACCAA  
 CAGAATAAAATAAAGATCTTCAAAGGAGCAGAAAACCTTGCAGGTGAAGTGCCAGCATTATAAGAAA  
 AACGAACGGAGCAAGAAGAACTATTGCTTCTTGCAAAATGGAAGTCTGTAGATTAAGGAGGGAAGA  
 AGATCGCATTGCTACTCAAACAGAGTGTTCCTATCTGTGAAAAGAGTTCCTCATACCGTCTGGAT  
 AGACAGTTGCTTTGTCTAATTGATTACTATGAATCTAAAATTAGAAAAATTCATACACAAAGGCAATATA  
 AAGAAGATGAAAGTCAGTCAGAAGAAGAAAACGACTACAGAAATCTGGATGCCTACCAACTTATAAAGG  
 CCTTTAATGTCATTACAGAATCAACTCAAGGAATCAAAATCTAAGATTGATGCACTTTCAAGTGAAGG  
 CTGAACCTCCAAAAGATTTGGAACCAGGCCTACGCAGCATGAATTAAGACTTTATAAACAGCAGGTGA  
 AGAAGCTGGAAAAAGCCCTTAAGAAAACGTCAAATTACAGGAGCTTATTAATCATAAGAAGGCTGAGGA  
 CACAGAGAAGAAAGATGAGCCCAGCAATATAATCAGCAACAGGCCCTAATTGACCAGAGATACTTTCAG  
 GTGCTGTGTAGCATCAATTCAATTATCCACAATCCAAGAGCTCCAGTAATAATTTATAAACAGACCAAAG  
 GGGGAGTCCAAAATTTTAATAAAGATCTTGTCAAGATTGTGGATTTGAGCATCTTGTCTCTGTAATAGA  
 AATGTGGGCAGATCAACTGACATCCTTAAAGGATTTGTATAAGTCTTGAACACTATCTGCAGAACTG  
 GTACCTTGGCTTAATTTGAAGAAGCAGGATGAAAATGAAGGTATCAAAGTTGAAGATTTGTTGTTATAG  
 TAGATACTATGCTGGAAGAAGTTGAAAATAAGGAAAAGGACAGCAATATGCCACACTTTCAAACCTTTGCA  
 AGCTATTGTTTCTCACTTCAAAGTATTTGATGTGCCTTCTTAAATGGAGTCTATCCCCGAATGAAT  
 GAAGTTTATACTAGGCTTGAGAAATGAACAATGCTGTGAGAACCTCCAAGAACTTTAGAAATAGATA  
 GTTCATCCTCATTGTGTGTGCTAGTAAGCACTGTTGGAAAACCTGTAGGCTGATTAATGAAGATGTGAA  
 TGAGCAGGTTATGCAGGTATTAGGACCTGAAGACCTCCAGAGCATTATCTACAAATTTGAAGAACACGAG  
 GAATTTTTCCAGCATTTAGGCATTTACTAATGATCTACTTGAATCTTAGAAATTTGATGACTTGGATG  
 CCATTGTACCTGCAGTAAAGAAATTAAGTACTTTTCATAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205474 representing NM\_024491  
 Red=Cloning site Green=Tags(s)

MFPVAPKPDSSQPSDRMLMTEKQQEEAEWESINVLLMMHGLKPLSLVKRTDLKDLIIFDKQSSQMRQNL  
 KLLVEETSCQQNMIQELIETNQQLRNELQLEQSRANQEQRANDLEQIMESVKSKIGELEDENRACHQ  
 QNKIKDLQKEQKTLQVKCQHYKKRTEQEETIASLQMEVCRLKKEEEDRIVTQNRVFAYLCKRVPHTVLD  
 RQLLCLIDYYESKIRKIHTQRQYKEDESQSEENDYRNLDSPTYKGLLSLQNLKESKIDALSSEK  
 LNLQKDLERPTQHELRLYKQVKKLEKALKKNVQLQELINHKAEDTEKKDEPSKYNQQALIDQRYFQ  
 VLCINSI IHNPRAPV IYKQTKGGVQNFNKDLVQDCGFEHLVPVIEMWADQLTSLKDLYKSLKTLSAEL  
 VPWLNKQDENEGIKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAI VSHFQKLFDPVSLNGVYPRMN  
 EYVYTRLGEMNNAVRNLQELLELDSSSLCVLVSTVYVGLKRLINEDVNEQVMQVLGPEDLQSIYKLEEEH  
 EFFPAFQAFNTDLEILEIDDLDAIVPAVKLKLKLVLSY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_024491

**ORF Size:** 1791 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\\_024491.2](#), [NP\\_077817.2](#)

**RefSeq Size:** 2678 bp

**RefSeq ORF:** 1794 bp

**Locus ID:** 80321

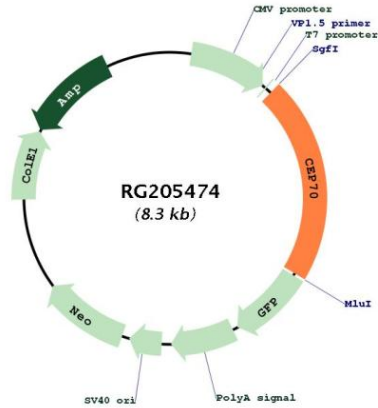
**UniProt ID:** [Q8NHQ1](#)

**Cytogenetics:** 3q22.3

**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 RG205474