

Product datasheet for **RG238961**

CEP70 (NM_001288965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP70 (NM_001288965) 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:

>RG238961 representing NM_001288965.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTGAGCAGGAAGAAGCAGAATGGGAAAGCATAAAATGTGCTATTGATGATGCATGGCTTAAACCT
TTGTCTCTAGTCAAAGAAGCAGATCTCAAAGATCTCATTTTTGACAAACAGTCATCACAAAGGATG
AGACAGAATTTGAAATTGTTGGTGAAGAAGAACATCATGTCAACAGAACATGATACAGGAGCTTATAGAA
ACTAATCAACAGCTTAGAAATGAACTTCAGCTAGAGCAAAGCCGAGCAGCCAATCAAGAACAACGAGCT
AATGACTTGGAACAAATTATGGAAGTGTGAAATCCAAAATTGGTGAATTGGAGGATGAATCACTAAGT
AGGGCTTGCCACCAACAGAATAAAATAAAAGATCTTCAAAGGAGCAGAAAACTTTACAGGTGAAGTGC
CAGCATTATAAGAAAAACGAACGGAGCAAGAAGAACTATTGCTTCTTTGCAATGGAAGTCTGTAGA
TAAAAAAGGAGGAAGAAGATCGCATTGCTCAAAACAGAGTGTTCCTATCTGTGCAAAAGAGTT
CCTCATACCGTCTGGATAGACAGTTGCTTTGTCTAATTGATTACTATGAATCTAAAATTAGAAAAATT
CATACAAAAGGCAATATAAAGAAGATGAAAGTCAGTCAGAAGAAGAAAACGACTACAGAAATCTGGAT
GCCTCACCAACTTATAAAGGCCTTTAATGTCATTACAGAATCAACTCAAGGAATCAAAATCTAAGATT
GATGCACTTTCAAGTGAAGAGCTGAACCTCCAAAAAGATTTGGAACCAGGCCTACGCAGCATGAATTA
AGACTTTATAACAGCAGGTGAAGAAGCTGAAAAAGCCCTTAAGAAAAACGTCAAATTACAGGAGCTT
ATTAATCATAAGAAGGCTGAGGACACAGAGAAGAAAGTAGAGCCAGCAATATAATCAGCAACAGGCC
CTAATTGACCAGAGATACTTTCAAGGTGCTGTGTAGCATCAATCAATTATCCACAATCCAAGAGCTCCA
GTAAATAATTTATAACAGACCAAAGGGGAGTCCAAAATTTAATAAAGATCTTGTTCAGATTGTGGA
TTTGAGCATCTTGTTCCTGTAATAGAAAATGTGGCAGATCAACTGACATCCTTAAAGGATTTGTATAAG
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ATCAAAGTTGAAGATTTGTTTATAGTAGACTACTATGCTGGAAGAAGTTGAAAATAAGGAAAAGGAC
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AAACTCTGTAGGCTGATTAATGAAGATGTGAATGAGCAGGTTATGCAGGATTAGGACCTGAAGACCTC
CAGAGCATTATCTACAAATGGAAGAACACGAGGAATTTTCCCAGCATTTCAGGCATTTACTAATGAT
CTACTTGAATCTTAGAAATTGATGACTTGGATGCCATTGTACCTGCAGTAAAGAATTAAGTACTT
TCATAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238961
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTEQEEAEWESINVLMMHGLKPLSLVKRTDLKDLIIFDKQSSQRMQRNLKLLVEETSCQQNMIQELIE
TNQQLRNELQLEQSRAANQEQRANDLEQIMESVKSKIGELEDLSRACHQQNKIKDLQKEQKTLQVKC
QHYYKKRTEQEETIASLQMEVCRLKKEEEDRIVTQNRVFAYLCKRVPHTVLDRLQLCLIDYYESKIRKI
HTQRQYKEDESQSEEENDYRNLDASPTYKGLLSLQNLKESKSKIDALSSEKLNKQKLETRPTQHEL
RLYKQVKKLEKALKKNVQLQELINHKAEDTEKKDEPSKYNQQALIDQRYFQVLCINSI IHNPRAP
VI IYKQTKGGVQNFNLDLVQDCGFEHLVPVIE MWADQL TSLKDL YKSLKTL SAEL VPWLN LKKQDENEG
IKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAI VSHFQKLF DVPSLNGVYPRMNEVYTRLGEMNNAV
RNLQELLELDSSSLCVLVSTVGKLCRLINEDVNEQVMQVLGPEDLQSI IYKLEEHEEFPFAFQAF TND
LLEILEIDDLDAIVPAVKKLVLSY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

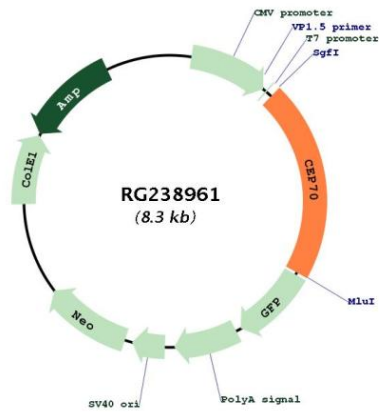
Restriction Sites:

SgfI-MluI

Cloning Scheme:


- ACCN:** NM_001288965
- ORF Size:** 1731 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).
- RefSeq:** [NM_001288965.2](#)
- RefSeq Size:** 2697 bp
- RefSeq ORF:** 1734 bp
- Locus ID:** 80321
- UniProt ID:** [Q8NHQ1](#)
- Cytogenetics:** 3q22.3
- MW:** 68 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 RG238961