

Product datasheet for **RG238874**

CEP70 (NM_001288966) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP70 (NM_001288966) 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:

>RG238874 representing NM_001288966.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTCCGGTAGCCCTAAACCCAGGATCCAGTCAACCATCAGACAGACTCATGACTGAAAAACAG
CAGGAAGAAGCAGAATGGGAAAGCATAAATGTGCTATTGATGATGCATGGCTTAAACCTTTGTCTCTA
GTCAAAGAACAGATCTCAAAGATCTCATTTTTTGACAAACAGTCATCACAAGGATGAGACAGAAT
TTGAAATTGTTGGTGAAGAAACATCATGTCAACAGAACATGATACAGGAGCTTATAGAAACTAATCAA
CAGCTTAGAAATGAACCTCAGCTAGAGCAAAGCCGAGCAGCCAATCAAGAACAACGAGCTAATGACTTG
GAACAAATTATGGAAAGTGTAAATCCAAAATTGGTGAATTGGAGGATGAATCACTAAGTAGGGCTTGC
CACCAACAGAATAAAATAAAGATCTTCAAAGGAGCAGAAAACCTTACAGGTGAAGTCCAGCATTAT
AAGAAAAACGAACGGAGCAAGAAGAACTATTGCTTCTTTGCAAATGGAAGTCTGTAGATTAAGAAAG
GAGGAAGAAGATCGCATTGTCACTCAAACAGAGTGTTCCTATCTGTGCAAAAGATTCTCATAACC
GTCTTGGATAGACAGTTGCTTTGTCTAATTGATTACTATGAATCTAAAATTAGAAAATTCATACACAA
AGGCAATATAAAGAAGATGAAAGTCAGTCAGAAGAAGAAAACGACTACAGAAATCTGGATGCCTACCA
ACTTATAAAGGCCTTTAATGTCATTACAGAATCAACTCAAGGAATCAAAATCTAAGATTGATGCACTT
TCAAGTGAAGCTGAACCTCCAAAAGATTTGGAAACAGGCCTACGCAGCATGAATTAAGACTTTAT
AAACAGCAGGTGAAGAAGCTGGAAAAGCCCTTAAGAAAACGTCAAATTAAGGAGCTTATTAATCAT
AAGAAGCTGAGGACACAGAGAAGAAAGATGAGCCAGCAATATAATCAGCAACAGGCCCTAATTGAC
CAGAGATACTTTCAGGTGCTGTGTAGCATCAATTCAATTATCCACAATCCAAGAGCTCCAGTAATAATT
TATAAACAGACCAAAGGGGGAGTCCAAAATTTAATAAAGATCTTGTTCAAGATTGTGGATTGAGCAT
CTTGTTCTGTAAATAGAAATGTGGGCAGATCAACTGACATCCTTAAAGGATTTGTAAAGCTTTGAAA
ACACTCTGCAGAACTGGTACCTTGGCTTAATTTGAAGAAGCAGGATGAAAATGAAGGTATCAAAGTT
GAAGATTTGTTGTTTATAGTAGATACTATGCTGGAAGAAGTTGAAAATAAGGAAAAGGACAGCAATATG
CCACACTTTCAAACCTTTGCAAGCTATTGTTTCTCACTTCCAAAAGTTATTTGATGTGCCTTCTTTAAAT
GGAGTCTATCCCCGAATGAATGAAGTTTATACTAGGCTTGAGAAATGAACAATGCTGTGAGAAACCTC
CAAGAACTCTTAGAATTAGATAGTTCATCCTCATTGTGTGTGCTAGTAAGCACTGTTGGAAAACCTGT
AGGCTGATTAATGAAGATGTGAATGAGCAGTTATGCAGGATTAGGACCTGAAGACCTCCAGAGGTAT
TTGTTT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238874
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MFPVAPKPDSSQPSDRLMTEKQEEAEWESINVLMMHGLKPLSLVKRTDLKDLIIFDKQSSQMRQN
LKLLVEETSCQQNMIQELIETNQQLRNELQLEQSRANQEQRANDLEQIMESVKSKIGELEDLSRAC
HQQNKIKDLQKEQKTLQVKCQHYKKRTEQEETIASLQMEVCRLKKEEDRIVTQNRVFAYLCKRVPHT
VLDRLQLCLIDYYESKIRKIHTQRQYKEDESQSEEENDYRNLDASPTYKGLLMSLQNLKESKSIDAL
SSEKLNQKDLERPTQHELRLYKQVVKLEKALKKNVKLQELINHKKAEDTEKKDEPSKYNQQALID
QRYFQVLCINSIIHNPRAPVIIYKQTKGGVQNFNKDLVQDCGFEHLVPVIEMWADQLTSLKDLYKSLK
TLSAELVPWLNKKQDENEGIKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAI VSHFQKLFVPSLN
GVYPRMNEVYTRLGEMNNAVRNLQELLELDSSSSLCVLVSTVVKGLCRLINEDVNEQVMQVLPEDLQRY
LF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

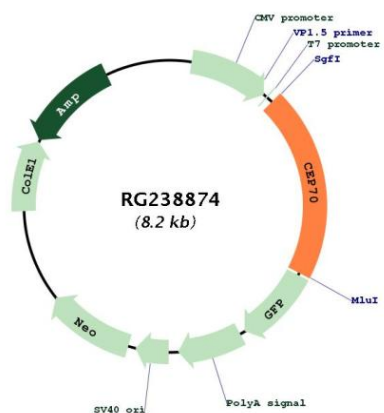
Restriction Sites:

Sgfl-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).
- 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 RG238874