

Product datasheet for **RG238970**

CEP70 (NM_001288964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEP70 (NM_001288964) 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:

>RG238970 representing NM_001288964.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTGAAAAACAGCAGGAAGAAGCAGAATGGGAAAGCATAAAATGTGCTATTGATGATGCATGGCTTA
AAACCTTTGTCTCTAGTCAAAGAACAGATCTCAAAGATCTCATATTTTGGACAAACAGTCATCACAA
AGGATGAGACAGAATTTGAAATTTGGTGGAAAGAACATCATGTCAACAGAACATGATACAGGAGCTT
ATAGAACTAATCAACAGCTTAGAAATGAACCTCAGCTAGAGCAAAGCCGAGCAGCCAATCAAGAACAA
CGAGCTAATGACTTGAACAAATATGGAAGTGTGAAATCCAAAATTTGGTGAATTGGAGGATGAATCA
CTAAGTAGGGCTTGCCACCAACAGAATAAAATAAAAGTCTTCAAAGGAGCAGAAAACTTTACAGGTG
AAGTGCCAGCATTATAAGAAAAACGAACGAGCAAGAAGAACTATTGCTTCTTTGCAAAATGGAAGTC
TGATAGTAAAAAAGGAGGAAGAAGATCGCATTGTCACTAAAACAGAGTGTTCCTATCTGTGCAAAA
AGATTTCCTCATACCGTCTTGGATAGACAGTTGCTTTGTCTAATTGATTACTATGAATCTAAAATTAGA
AAAATTCATACAAAAGCAATATAAAGAAGATGAAAGTCAGTCAGAAGAAGAAAACGACTACAGAAAT
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AAGATTGATGCATTTCAAGTAAAAGCTGAACCTCCAAAAGATTTGGAACCAGGCCTACGCAGCAT
GAATTAAGACTTTATAAACAGCAGGTGAAGAAGCTGAAAAAGCCCTTAAGAAAAACGTCAAATTACAG
GAGCTTATTAATCATAAGAAGGCTGAGGACACAGAGAAGAAAGATGAGCCAGCAAAATAATCAGCAA
CAGGCCATAATTGACCAGAGATACTTTCAGGTGCTGTGTAGCATCAATTCATTAATCCACAATCCAAGA
GCTCCAGTAATAATTTATAAACAGACCAAAGGGGAGTCCAAAATTTAATAAAGATCTTGTTCAGAT
TGTGGATTTGAGCATCTTGTCTGTAAAGAAATGTGGGAGATCAACTGACATCCTTAAAGGATTTG
TATAAGTCTTGAACACTATCTGCAGAAGTGGTACCTTGGCTTAATTTGAAGAAGCAGGATGAAAT
GAAGGTATCAAAGTTGAAGATTTGTTTATAGTAGATCTATGCTGGAAGAAGTTGAAAATAAGGAA
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GTGCCCTCTTAAATGGAGTCTATCCCGAATGAATGAAGTTTATACTAGGCTTGAGAAATGAACAAT
GCTGTGAGAAACCTCCAAGAAGCTTAGAATTAGATAGTTCATCCTCATTGTGTGTGCTAGTAAGCACT
GTTGAAAAGCTGTAGGCTGATTAATGAAGATGTGAATGAGCAGGTTATGCAGGATTAGGACCTGAA
GACCTCCAGAGCATTATCTACAAATTGGAAGAACAGGAAATTTTCCAGCATTTCAGGCATTTACT
AATGATCTACTTGAATCTTAGAAATTGATGACTTGGATGCCATTGTACCTGCAGTAAAGAAATTAATA
GTACTTTCATAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238970
 Blue=ORF Red=Cloning site Green=Tag(s)

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MTEKQEEAEWESINVLMMHGLKPLSLVKRTDLKDLIFDKQSSQMRQNLKLLVEETSCQQNMIQEL
IETNQQLRNELQLEQSRANQEQRANDLEQIMESVKSKI GELEDESLSRACHQQNKIKDLQKEQKTLQV
KCQHYKKRTEQEETIASLQMEVCRLKKEEEDRIVTQNRVFAYLCKRVPHTVLD RQLLCLIDYYESKIR
KIHTQRQYKEDESQSEEENDYRNLASPTYKGLLMSLQNLKESKSKIDALSSEKLNLDLETRPTQH
ELRLYKQVKKLEKALKKNVQLQELINHKKAEDTEKKDEPSKYNQQALIDQRYFQVLCINSIIHNPR
APVVIYKQTKGGVQNFNDLVQDCGFEHLVPVIEMWADQLTSLKDLYKSLKLSAELVPWLNKQDEN
EGIKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAIVSHFQKLFVPSLVNGVYPRMNEVYTRLGEMNN
AVRNLQELLELDSSSLCVLVSTVGKLCRLINEDVNEQVMQVLPEDLQSIYKLEEHFFPAFQAF
NDLLEILEIDDLDAIVPAVKKLVLSY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001288964

ORF Size: 1737 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_001288964.2](#)

RefSeq Size: 2753 bp

RefSeq ORF: 1740 bp

Locus ID: 80321

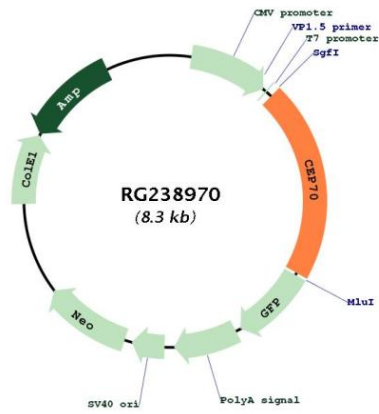
UniProt ID: [Q8NHQ1](#)

Cytogenetics: 3q22.3

MW: 68.2 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 RG238970