

## Product datasheet for **RG234866**

### **TUBGCP2 (NM\_001256618) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TUBGCP2 (NM_001256618) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBGCP2
Synonyms:	ALP4; GCP-2; GCP2; Grip103; h103p; hGCP2; hSpc97; PAMDDFS; SPBC97; SPC97; Spc97p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234866 representing NM\_001256618  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGGAGCTTGAGGAAGCAGCTTGGCAGCTGGCCACAGGCTCCACGCTGCAGCAGTCTC  
 TGGAACTTAAAAGAAAGATGCTTCGAGACAAGCAGAACAAAAAATTCAGGCCAGCACCTCCCATCTT  
 CCCAGCATGGGTGTATGAGAGACCTGCCCTGATCGGGATTTCCTGATTGGTGTGGCATCAGCACAGAC  
 ACCGCTTTGCCGATAGGCACGTTGCCCTGGCCTCGCAGGAGTCGGCCGTGGTGGAGGACCTGCTGTACG  
 TGCTGGTGGGCGTGGACGGGAGGTACGTGAGTCTCAGCCCTGGCTGGGAGGCAGAGCCGGACCTTCT  
 CGTGGACCCCAACCTGGACCTGTCCATCAGGGAGCTGGTGCACAGGATCTCCAGTGGCCGCCAGCTAC  
 TCCGCTGTGACCAGTTCATTGAAGAGAAGTCTTCTTCGAGTACGGGCAGGTGAACCACGCCCTGGCGG  
 CCGCCATGCGCACCTGGTGAAGGAGCACCTGATTCTGGTGTACAGCTGGAGCAGCTGCACAGGCAGGG  
 CCTCCTTCGCTGAGAAGCTCTGGTTCTACATCCAGCCAGCCATGCGCACCATGGACATCTGGCTCC  
 CTCGCCACCTCGGTGGACAAGGCGAATGTCTTGGGGGTCCACGCTGAGCTGTCCACGACAGGAGCT  
 TCAGCTACACAGGGGACAGCCAGGCGCAGGAGCTATGCCTGTACCTAACCAAGGCGGCCAGTGTCCCTA  
 CTTTCGAGGTTCTGGAGAAGTGGATCTACAGGGGCATCATCCACGACCCATACAGTGAATTTATGGTCGAG  
 GAGCACGAGCTGCGGAAGGAGAGGATCCAGGAGGATTACAACGACAAGTACTGGGACCAGCGGTACACCA  
 TCGTCCAGCAGCAGATCCCGTCTTCTGCAGAAAATGGCGGACAAGATCCTCAGCACAGGAAAAATCT  
 AAATGTGGTCAGAGAGTGGCCATGACGTACCTGCCCGGTGGCTAAAGAGATCATCTACACGTTAAAA  
 GAGCGGGCGTATGTGGAGCAGATCGAGAAGGCGTTAACTACGCCAGCAAGGTGCTGGACTTCTCTGA  
 TGGAGAGAAGGAGCTGGTGGCTCACCTCAGTCCATCAAGCGCTACTTCTCATGGACAGGGCGACTT  
 CTTCTGCACTTTCATGGACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGAGGACATCACGCCCCCTCGC  
 CTGGAAGCGCTCCTGGAGCTGGCGCTGCGCATGAGCACGGCAACTGACCCCTTCAAGGACGACCTCA  
 AGATCGACCTGATGCCCCATGACCTCATCACTCAGCTCTTGCAGCTCCTGGCCATCGAGACCAAGCAGGA  
 GAAGGCGATGGCGCACGCCGACCCACGGAGCTGGCGCTGAGCGGCTGGAGGCTTCTCTTTCGACTAC  
 ATCGTCAAGTGGCCCTTTCGCTCATCATCAACAGGAAAGCCCTCACTCGCTACCAGATGCTTTCAGGC  
 ACATGTTCTACTGCAAGCACGTGGAGCGGAGCTCTGCAGCGTCTGGATCAGCAACAAAACGCCAAGCA  
 GCACTCGTGCCTCCGCCAGTGGTTTGGTGGGGCTTTCCTCTGCGGCAGCGAATGCTCAACTTCGTC  
 CAGAATATTCAATACTACATGATGTTTGAAGTGTGGAACCGACCTGGCACATCTGGAGAAAAACCTGA  
 AATCCGCCTCAACATTGACGACGCTCTTGGCCACCACACAGGCTTCTGGACACCTGCCTGAAGGACTG  
 CATGCTACCAACCCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234866 representing NM\_001256618  
 Red=Cloning site Green=Tags(s)

MQELEELRKQLGSVATGSLQQSLELKRKMLRDKQNKNSGQHLPIFPAWVYERPALIGDFLIGAGISTD  
 TALPIGTLPLASQESAVVEDLLVYLVGVDGRYVSAQPLAGRQSRFTLVDPNLDLSIRELVHRILPVAASY  
 SAVTRFIEEKSSFYEQVNHALAAAMRTLKVEHLILVSQLEQLHRQGLLSLQKLWFIQIPAMRTMDILAS  
 LATSVDKGECLGGSTLSLLHDRSFYTGDSQAQELCLYLTKAASAPYFEVLEKWIYRGIHDPYSEFMVE  
 EHELKRIQEDYNDKYWDQRYTIVQQQIPSFLQKMAKILSTGKYLNVVRECGHDVTCVAKIITYTLK  
 ERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQGDFFVHFMDLAEELRKPVEDITPPR  
 LEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLAIEKQEKAMAHADPTELALSGLEAFSFDY  
 IVKWPLSLIINRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSHAQWFAGAFTRQRMLNFV  
 QNIQYMMFEVMEPTWHILEKNLKSASNIDVGLGHTGFLDTCLKDCMLTNP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256618

**ORF Size:** 2316 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\\_001256618.1](#), [NP\\_001243547.1](#)

**RefSeq Size:** 4029 bp

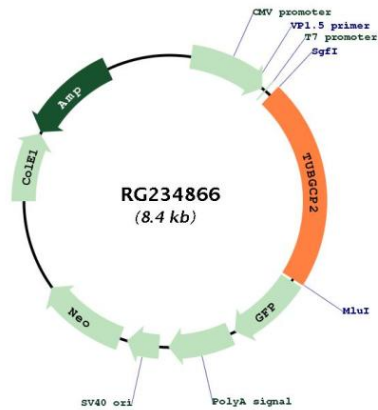
**RefSeq ORF:** 2319 bp

**Locus ID:** 10844

**UniProt ID:** [Q9BSJ2](#)

**Cytogenetics:** 10q26.3  
**Protein Families:** Druggable Genome  
**Gene Summary:** Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG234866