

## Product datasheet for **RG235048**

### **TUBGCP2 (NM\_001256617) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TUBGCP2 (NM_001256617) 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:**

>RG235048 representing NM\_001256617  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTGAATTTTCGATTACCATGACGTCAATGAACTGCTTAGCCTGCTGCGTGTCCACGGAGGAGATG  
 GGGCTGAGGTCTACATTGACCTGCTTCAAAGAACAGGACCCCGTACGCTACTACCACTGTCTCTGCTCA  
 CAGTGCCAAGGTTAAAATTGCAGAGTTTTCTCGTACTCCAGAAGACTTTCTAAAGAAATATGATGAACTG  
 AAATCTAAAAATACAAGGAACCTTGACCCGCTGGTGTACCTGTTGTCAAAGCTCACGGAAGACAAAGAGA  
 CTCTGCAGTACTTACAACAGAATGCAAAAGAAAGAGCTGAGCTTGCAGCCGCTGCTGTGGGCAGCAGTAC  
 CACCAGCATCAACGTCCCTGCCGCGCCCTCAAGATCTCCATGCAGGAGCTTGGAACTGAGGAAGCAG  
 CTTGGCAGCGTGGCCACAGGCTCCACGCTGCAGCAGTCTCTGGAACCTTAAAGAAAGATGCTTCGAGACA  
 AGCAGAACAAAAAATTCAGGCCAGCACCTCCCATCTTCCAGCATGGGTGTATGAGAGACCTGCCCT  
 GATCGGGGATTTCTGATTGGTGTGGCATCAGCACAGACACCGCTTTGCCGATAGTTCTTTTGGATGG  
 AATCTCGCTCTGTGCCCCAGGCTGAAGTGCAGTGGCGTGATCTCGGCACACTGCAACCTCCACCTCCAG  
 GCACGTTGCCCTGGCCTCGCAGGAGTCGGCCGTGGTGGAGGACCTGCTGTACGTGCTGGTGGGCGTGG  
 CGGGAGGTACGTAGTGTGCTCAGCCCTGGCTGGGAGGCAGAGCCGGACCTTCTCGTGGACCCCAACCTG  
 GACCTGTCCATCAGGGAGCTGGTGCACAGGATCCTCCCAGTGGCCGCCAGCTACTCCGCTGTGACCAGGT  
 TCATTGAAGAGAAGTCTTCTTCGAGTACGGGCAGGTGAACCACGCCCTGGCGGCCGCAATGCGCACCT  
 GGTGAAGGAGCACCTGATTTCTGGTGTACAGCTGGAGCAGCTGCACAGGCAGGGCCTCCTTTCGTCGAG  
 AAGCTCTGGTTCTACATCCAGCCAGCCATGCGCACCATGGACATCCTGGCCTCCCTCGCCACCTCGGTGG  
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 TGTGGCCATGACGTACCTGCCCGTGGCTAAAGAGATCATCTACACGTTAAAAGAGCGGGCGTATGTGG  
 AGCAGATCGAGAAGGCGTTAACTACGCCAGCAAGGTGCTGCTGGACTTCTGATGGAGGAGAAGGAGCT  
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 GACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGAGGACATCACGCCCTCGCCTGGAAGCGCTCCTGG  
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 CCATGACCTCATCACTCAGCTCTTGCAGCTCCTGGCCATCGAGACCAAGCAGGAGAAGGGCATGGCGCAC  
 GCCGACCCACGGAGCTGGCGCTGAGCGGCTGGAGGCCTTCTCTTTCGACTACATCGTCAAGTGGCCCC  
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 GAGCTGCTGAAGTCTTCTCAAGCTCATGTCTGTGTGCGTCATGTTACCAACTGCATGCAGAAATTTA  
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 CAGCTGGTGTCCGGCTTCGAGGCCACCATCAACAAGTTTGAAGAAGTCTCAGCCACCTGCTGGACC  
 TCCTGGCCCGCTGAGCATCTATAGCACAGTACTGTGAGCACGGCATGGCCAGCGTATCTCCAGGCT  
 TGACTTCAATGGTTTCTACACGGAGCGCTGGAGCGCTGTCTGCAGAGAGGAGCCAGAAGGCCACCCCC  
 CAAGTGCCTGTCTGCGGGGCCCCCGCTCCTGCACCCAGGGTCGAGTCACCCGACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG235048 representing NM\_001256617  
 Red=Cloning site Green=Tags(s)

MSEFRIHHDVNELL SLLRVHGGDGAEVYIDLLQKNRTPYVTTTSAHSAKVKIAEF SRTPEDFLKKYDEL  
 KSKNTRNLDPLVYLLSKL TEDKETLQYLQONAKERAELAAA AVGSSTTSINVPAAASKISMQELEELRKQ  
 LGSVATGSTLQQSLELKRKMLRDKQNKNSGQHLPIFP AWVYERPALIGDFLIGAGISTDTALPIVLLRW  
 NLALSPRLKCSGVISAHCNLHLPGTLPASQESAVVEDLLYVLVGV DGRVYSAQPLAGRQSRFTLVDPNL  
 DLSIRELVHRILPVAASYSAVTRFIEEKSSF EYGQVNHALAAAMRTL VKEHLILVSQLEQLHRQGLLSLQ  
 KLWFIQIPAMRTMILASLATSVDKGECLGGSTLSLLHDSFSYTGDSQAQELCLYLTKAASAPYFEVLE  
 KWIYRGI IHPYSEFMVEEHELKRIQEDYNDKYWDQRYTIVQQQIP SFLQKMADKILSTGKYLNVVRE  
 CGHDVTCVAKI IYTLKERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQGDFVHFM  
 DLAEELRKPVEDITPPRLEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLA IETKQEKAMAH  
 ADPTALALSGLEAFSFDYIVKWPLSLIINRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSHS  
 AQWFAGAF TLRQMLNFVQNIQYMMFVMEPTWHILEKNLKSASNIDDLGHHTGFLDTCLKDCMLTNP  
 ELLKVF SKLMSVCVMFTNCMQKFTQSMKLDGELGGQTL EHS TVLGLPAGAEERARKELARKHLAEHADTV  
 QLVSGFEATINKFDKNFSAHLLDLLARLSIYSTDCEHGMA SVISRLDFNGFYTERLERLSAERSQKATP  
 QVPVLRGPPAPAPRVAVTAQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

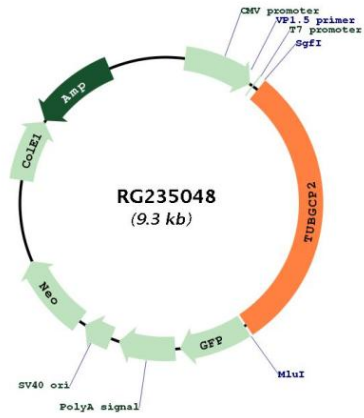
Cloning Scheme:



ACCN: NM\_001256617

<b>ORF Size:</b>	2790 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001256617.1</a> , <a href="#">NP_001243546.1</a>
<b>RefSeq Size:</b>	4302 bp
<b>RefSeq ORF:</b>	2793 bp
<b>Locus ID:</b>	10844
<b>UniProt ID:</b>	<a href="#">Q9BSJ2</a>
<b>Cytogenetics:</b>	10q26.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG235048