

Product datasheet for **RG210833**

TUBGCP2 (NM_006659) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUBGCP2 (NM_006659) 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:

>RG210833 representing NM_006659
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGAATTTTCGGATTACCATGACGTCAATGAACTGCTTAGCCTGCTGCGTGTCCACGGAGGAGATG
 GGGCTGAGGTCTACATTGACCTGCTTCAAAGAACAGGACCCCGTACGCTACTACCACTGTCTCTGCTCA
 CAGTGCCAAGGTTAAAATTGCAGAGTTTCTCGTACTCCAGAAGACTTTCTAAAGAAATATGATGAACTG
 AAATCTAAAAATACAAGGAACCTTGACCCGCTGGTGTACCTGTTGTCAAAGCTCACGGAAGACAAAGAGA
 CTCTGCAGTACTTACAACAGAATGCAAAAGAAAGAGCTGAGCTTGCAGCCGCTGCTGTGGGCAGCAGTAC
 CACCAGCATCAACGTCCCTGCCGCGCCCTCAAGATCTCCATGCAGGAGCTTGGAACTGAGGAAGCAG
 CTTGGCAGCGTGGCCACAGGCTCCACGCTGCAGCAGTCTCTGGAACCTTAAAGAAAGATGCTTCGAGACA
 AGCAGAACAAAAAATTCAGGCCAGCACCTCCCATCTTCCAGCATGGGTGTATGAGAGACCTGCCCT
 GATCGGGGATTTCTGATTGGTGTGGCATCAGCACAGACACCGCTTTGCCGATAGGCACGTTGCCCTG
 GCCTCGCAGGAGTCGGCCGTGGTGGAGGACCTGCTGTACGTGCTGGTGGGCGTGGACGGGAGGTACGTCA
 GTGCTCAGCCCTGGCTGGGAGGCAGAGCCGGACCTTCTCGTGGACCCCAACCTGGACCTGTCCATCAG
 GGAGCTGGTGCACAGGATCCTCCAGTGGCCGCCAGCTACTCCGCTGTGACCAGGTTCAATGAAGAGAAG
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 GGGCATCATCCACGACCACATACAGTGAGTTTATGGTTCGAGGAGCACGAGCTGCGGAAGGAGAGGATCCAG
 GAGGATTACAACGACAAGTACTGGGACCAGCGGTACACCATCGTCCAGCAGCAGATCCCCTCTTCTCTGC
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 GGAGCTCCGAAGCCGGTGGAGGACATCACGCCCTCGCCTGGAAGCGCTCTGGAGCTGGCGCTGCGC
 ATGAGCACGGCCAACTGACCCCTTCAAGGACACCTCAAGATCGACCTGATGCCCATGACCTCATCA
 CTCAGCTCTTGGCGTCTTGCCATCGAGACCAAGCAGGAGAAGGCGATGGCGCACGCCGACCCACCGGA
 GCTGGCGCTGAGCGCCCTGGAGGCTTCTTTTCTGACTACATCGTCAAGTGGCCCTTTCGCTCATCATC
 AACAGGAAAGCCCTCACTCGCTACCAGATGCTCTTTCAGGCACATGTTCTATTGCAAGCACGTGGAGCGGC
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 AGCGGGCCCGGAAGGAGCTCGCCAGGAAGCACCTGGCTGAGCACGCAGACACTGTGCAGCTGGTGTCCGG
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 AGCATCTATAGCACAGTACTGTGAGCACGGCATGGCCAGCGTCATCTCCAGGCTTGACTTCAATGGTT
 TCTACACGGAGCGCTGGAGCGCTGTCTGCAGAGAGGAGCCAGAAGGCCACCCCAAGTGCCTGTCTCT
 GCGGGGGCCCGGCTCTGCACCCAGGTCGACGTCACCGCACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG210833 representing NM_006659
 Red=Cloning site Green=Tags(s)

MSEFRIHHDVNEILLSLRVHGGDGAEVYIDLLQKNRTPYVTTTSAHSAKVKIAEFSRTPEDFLKKYDEL
 KSKNTRNLDPLVYLLSKLTEDKETLQYLQONAKERAELAAAAGVSGSTTSINVPAAASKISMQELEELRKQ
 LGSVATGSTLQQSLELKRKMLRDKQNKNSGQHLPIFPAWYERPALIGDFLIGAGISTDTALPIGTLPL
 ASQESAVVEDLLYVLVGVDRYVSAQPLAGRQSRFTFLVDPNLDLSIRELVHRILPVAASYSVTRFIEEK
 SSFEYGVNHALAAAMRTLKVEHLILVSQLEQLHRQGLLSLQKLWFIQIPAMRTMDILASLATSVDKGEK
 LGGSTLSLLHDSFSYTGDSQAQELCLYLTKAASAPYFEVLEKWIYRGIHDPYSEFMVEHELKRIQ
 EDYNDKYWDQRYTIVQQQIPSFLLQKMDKILSTGKYLNVVRECGHDVTCVPAKEIITYLKERAYVEQIEK
 AFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQDFFVHFMDLAEELRKPVEDITPPRLEALLELALR
 MSTANTDPFKDDLKIDLMPHDLITQLLRVLAIETKQEKAMAHADPTLALSGLEAFSFDYIVKWPLSLII
 NRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSAQWFAGAFTLRQRMLNFVQNIQYMMF
 VMEPTWHILEKNLKSASNIDDLGHHTGFLDTCLKDCMLTNPPELLKVFSLKMSVCMFTNCMQKFTQSMK
 LDGELGGQTLHSTVLGLPAGAEERARKELARKHLAEHADTVQLVSGFEATINKFDKNFSAHLLDLLARL
 SIYSTSDCEHGMA SVISRLDFNGFYTERLERLSAERSQKATPQVPVLRGPPAPAPRVAVTAQ

TRTRPLE - GFP Tag - V

Restriction Sites:

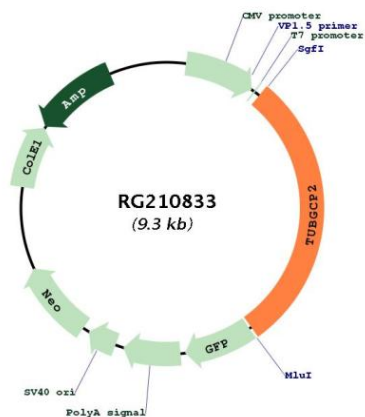
SgfI-MluI

Cloning Scheme:



ACCN:	NM_006659
ORF Size:	2706 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:	<ol style="list-style-type: none">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_006659.1 , NP_006650.1
RefSeq Size:	3198 bp
RefSeq ORF:	2709 bp
Locus ID:	10844
UniProt ID:	Q9BSJ2
Cytogenetics:	10q26.3
Domains:	Spc97_Spc98
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 RG210833