

Product datasheet for **RG209703**

TUBGCP5 (NM_052903) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUBGCP5 (NM_052903) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBGCP5
Synonyms:	GCP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209703 representing NM_052903 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGCACGGGCCACCGTGGAGTCGGTTGGACGCGCAGCAGGAGCGCGACGTGCGGGAGCTCGTCC
GGGGTGTGCGCGGCTCCAGGACGAGGCAGACCCCAACTTCCAGCTCGCCCTAACTTCGCTGTCCTCA
CTTCAGATTTTCATCGTTTCTGGATGTCAACAGCCACAAAATAGAAAAACAATCGAAGGAATTTATGAA
AAATTTGTCATTCTGATCTAAGCAAAGCTGCTAGTTGGAAGAGATTAACGGAGGAATTTCTAAATG
CACCATTCCCAGTATAAAGGAAATAAAGACAGATGCACATTATCCATACTGTCACTTCTCTGTGTCT
GTCAGACTCTCCTTCAAACAGCAGTTATGTGGAGACACCAAGAAATAAAGAAGTGGAAAAGAAAGATGAT
TTCGACTGGGGAAAATACTTGTGGAAGATGAAGAAATGGACATTGGTCCGTACATGGACACACCAAATT
GGTCTGAAGAAAGTGAAGAGGAAAATGATCAACAGCCCTTAAGCAGAGAGGACTCTGGAATTCAGGTAGA
CAGGACACCGTTAGAAGAACAAGATCAAACGGAAAACCTGGATCCTTGTATCAGTTGGAAGATGAGCCA
GATGACCGAAGCTGGCTGGAACATCATGTGGTCCATCAGTACTGGACAGCCAGGCCCTCCAGTTTCTCT
ATAGTTTACATTTGCACTCTAATTTAGCTGTCTGTGGACCAACACTTGTACAGCAGTGATCCATTGTA
TGTTCCAGATGACAGGGTTTTGGTTACTGAGACTCAGGTTATTCGGGAAACCCTATGGTTACTTTTCAGGA
GTGAAAAGCTCTTTATATTTTCAGTTGATAGATGGGAAGTAACTGTGAGAAACAATATTATAGTAACT
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CCAGGAGTTCATTGATGAAGTCATGGGACACAGTTCTGAGAGCATGCTGCCTGGAAGTGGTCTGTCTCT
AAGAAGTCAACTGAAGCTCCCTTTAGAACCTACCAGGCTTTCATGTGGGCCCTGTACAAATATTTTCATTA
GTTTCAAAGAGGAACTTGAGAAATGAGAAGTGCATCATCAATAATGATACTACAATAACTCTTGAAT
AGTGGTGGACAAGTTGGCACCTCGATTGTCTCAGCTCAAGTTCTGCACAAAGTGTTTAGTACTGGAGTA
GCAGAAGTTCCACCTGATACTCGAAATGTCGTCGGGCCCTCTCACCTGCTAACACCCTGTACAAGGCCA
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AACGGTGGCCCTTACCTGCAGACGGTGGACGAGTGGATCGTGCACGGGCACCTGTGGGATGGCGCCAGG



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GAGTTCATCATCCAGAGAAAACAAAAATGTTCCAGTTAATCACAGAGACTTCTGGTATGCAACTTACACGT
TATATAGCGTATCAGAAAAGACAGAAAAATGAAGAAAAATGAGTGATAACGCTAGTGCAGTTCGGCGAG
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AGTGAAGCTCATGCAATTCGTGAACAGCTTGCACAACATCATGACCAGGATTCTACACAGTACAGGG
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TGTCACCATCCATGACCGGTGTCTGCTGAGAGAAAAGGTGAGCTTTGTGAAAGAAGCTATCATGAAGGT
GTTGAAGTGGCTCTCATGTTTGCAGACGGTGGCAGGCAGGCCCTGGGCACTTGGCGAATGGAATCTATA
GAGAAAATGGAATCTGATTTTAAAACTGCCATATGTTTCTTGTAAACATTTTAAACAAAGCCGTCTGTA
GAGGATCTTTCCCATTTGGAATCTCTAGCGTGTCACTCATGGCTGGCATGGAACAAAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209703 representing NM_052903
Red=Cloning site Green=Tags(s)

MARHGPPWSRLDAQQERDVRELVRGAVLQDEADPNFQLALNFAWSNFRFHRFLDVNSHKIEKTIIEGIYE
KFVIHSDL SKAASWKRLTEEFNLAPLPSIKEIKTDAHYSILSLLLCLSDSPSNSSYVETPRNKEVEKKDD
FDWGKYLMEDEMDIGPYMDTPNWSESEEEENDQQPLSREDSGIQVDRTPLEEQQDQNGKLDPCISWKDEP
DDRSWLEHHVHVHQTARPSQFPHSLHLHSLNLAAVWDQHLYSDDPLYVPPDRVLVTETQVIRETLWLLSG
VKKLFIFQLIDGKVTVRNNIIVTHLTHSCLRSVLEQIAAYGQVVFRLQEFIDEVMGHSSSMLPGSGSVP
KKSTEAPFRTYQAFMWALYKYFISFKEELAEIEKCIINNDTTITLAIIVDKLAPRLSQLKVLHKVFSTGV
AEVPPDTRNVVRASHLLNNTLYKAILEYDNVGEASEQTVSLLFSLWVETVRPYLQTVDEWIVHGLWDGAR
EFIIQRNKNVPVNRDFWYATYLYSVSEKTENEKMSDNASASSGSDQGPSSRQHTMVSFLKPVLKQII
MAGKSMQLLKNLQCAESTTCQAGARDAERKSLYTLFLESVQSRLRHGEDSTPQVLTEQQATKENLMKMQS
IAESHLELDDVHDPLLAINFARMYLEQSDFFHEKFAGGDVCDRSSESVTCTFELTLRSCLYPHIDKQYL
DCCGNLMQTLKKDYRLVEYLQAMRNFFLMEGGDMYDFYTSIFDKIREKETWQNVSFLNVQLQEAVGQRY
PEDSSRLSISFENVDTAKKLPVHILDGLTLYKVPWPVDIVISLECQKIYNQVFLLLLQIKWAKYSLDV
LLFGELVSTAEPRLKEGLIHEQDTVAQFGPQKEPVRQQIHRMFLLRVKLMHFVNSLHNYIMTRILHSTG
LEFQHQVEEAKDLQLIKIHRYLSTIHDRCLLREKVSFVKEAIMKVLNLALMFADGWQAGLGTWRMESI
EKMESDFKNCHMFLVTILNKAVCRGSPHLESLLALSLMAGMEQS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_052903

ORF Size: 3072 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:

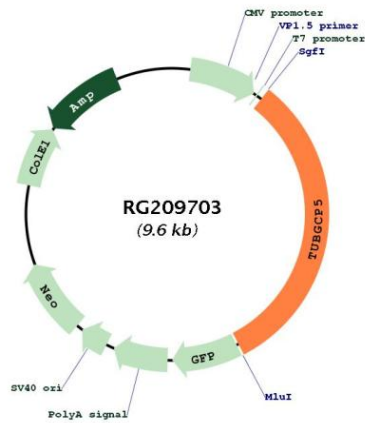
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_052903.3](#)

RefSeq Size: 3830 bp

RefSeq ORF:	3075 bp
Locus ID:	114791
UniProt ID:	<u>Q96RT8</u>
Cytogenetics:	15q11.2
Domains:	Spc97_Spc98
Gene Summary:	Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209703