

Product datasheet for **RC234866**

TUBGCP2 (NM_001256618) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUBGCP2 (NM_001256618) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUBGCP2
Synonyms:	ALP4; GCP-2; GCP2; Grip103; h103p; hGCP2; hSpc97; PAMDDFS; SPBC97; SPC97; Spc97p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234866 representing NM_001256618
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGAGCTTGAGGAAGCAGCTTGGCAGCGTGGCCACAGGCTCCACGCTGCAGCAGTCTC
 TGGAACTTAAAAGAAAGATGCTTCGAGACAAGCAGAACAAAAAATTCAGGCCAGCACCTCCCATCTT
 CCCAGCATGGGTGTATGAGAGACCTGCCCTGATCGGGATTTCCTGATTGGTGCTGGCATCAGCACAGAC
 ACCGCTTTGCCGATAGGCACGTTGCCCTGGCCTCGCAGGAGTCGGCCGTGGTGGAGGACCTGCTGTACG
 TGCTGGTGGGCGTGGACGGGAGGTACGTGAGTCTCAGCCCTGGCTGGGAGGCAGAGCCGGACCTTCT
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 TCCGCTGTGACCAGTTTATTGAAGAGAAGTCTTCTTCGAGTACGGGCAGGTGAACCACGCCCTGGCGG
 CCGCCATGCGCACCTGGTGAAGGAGCACCTGATTCTGGTGTACAGCTGGAGCAGCTGCACAGGCAGGG
 CCTCTTTGCTGCAGAAGCTCTGGTTCTACATCCAGCCAGCCATGCGCACCATGGACATCTGGCTCC
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 TCAGCTACACAGGGGACAGCCAGGCGCAGGAGCTATGCCTGTACCTAACCAAGGCGGCCAGTGTCCCTA
 CTTTCGAGGTTCTGGAGAAGTGGATCTACAGGGGCATCATCCACGACCCATACAGTGAGTTTATGGTCGAG
 GAGCACGAGCTGCGGAAGGAGAGGATCCAGGAGGATTACAACGACAAGTACTGGGACCAGCGGTACACCA
 TCGTCCAGCAGCAGATCCCGTCTTCTGCAGAAAATGGCGGACAAGATCCTCAGCACAGGAAAAATCT
 AAATGTGGTCAGAGAGTGGCCATGACGTCACCTGCCCGGTGGCTAAAGAGATCATCTACACGTTAAAA
 GAGCGGGCGTATGTGGAGCAGATCGAGAAGGCGTTAACTACGCCAGCAAGGTGCTGCTGGACTTCTGA
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 CTTCTGCACTTTCATGGACCTCGCGGAGGAGGAGCTCCGGAAGCCGGTGGAGGACATCACGCCCCCTCGC
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 GAAGGCGATGGCGCACGCCGACCCACGGAGCTGGCGCTGAGCGGCTGGAGGCTTCTCTTTCGACTAC
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 GCACTCGCTGCACTCCGCCAGTGGTTTGGTGGGGCTTTCCTGCGGCAGCGAATGCTCAACTTCGTC
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 TGCATGCAGAAATTTACACAGAGCATGAAATTAGATGGCGAGCTGGGCGGGCAGACGCTGGAGCACAGCA
 CCGTCTGGGGCTGCCCGCAGGGGCCGAGGAGCGGGCCCGGAAGGAGCTCGCCAGGAAGCACCTGGCTGA
 GCACGCAGACACTGTGCAGCTGGTGTCCGGCTTCGAGGCCACCATCAACAAGTTTGACAAGAACTTCTCA
 GCCACCTGCTGGACCTCCTGGCCCGCTGAGCATCTATAGCACCAGTACTGTGAGCACGGCATGGCCA
 CGGTATCTCCAGGCTTGACTTCAATGGTTTCTACACGGAGCGCTGGAGCGCTGTCTGCAGAGAGGAG
 CCAGAAGGCCACCCCAAGTGCCTGTCTGCGGGGCCCGGCTCTGCACCCAGGGTGCAGTCACC
 GCACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC234866 representing NM_001256618
Red=Cloning site Green=Tags(s)

MQELEELRKQLGSVATGSTLQQSLELKRKMLRDKQNKNSGQHLPIFPWVYERPALIGDFLIGAGISTD
TALPIGTLPLASQESAVVEDLLYVLVGVDGRYVSAQPLAGRQSRFTLVDPNLDLSIRELVHRILPVAASY
SAVTRFIEEKSSFYEQVNHAAAMRTLKVEHLILVSQLEQLHRQGLLSLQKLFYIIPAMRTMDILAS
LATSVDKGECLGGSTLSLLHDSFSYTGDSQAQELCLYLTKAASAPYFEVLEKWIYRGIHDPYSEFMVE
EHELKRIQEDYNDKYWDQRYTIVQQIPSFQKQKADKILSTGKYLNVVRECGHDVTCPVAKIITYTLK
ERAYVEQIEKAFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQGDFVHFMDLAEELRKPVEDITPPR
LEALLELALRMSTANTDPFKDDLKIDLMPHDLITQLLRVLAIETKQEKAMAHADPTTELALSGLEAFSFDY
IVKWPLSLIINRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHSLSAQWFAGAFTRQRMLNFV
QNIQYMMFEVMEPTWHILEKNLKSASNIDDLGHHTGFLDTCLKDCMLTNPELLKVFSKLMSVCMFTN
CMQKFTQSMKLDGELGGQTEHSTVLGLPAGAEERARKELARKHLAEHADTVQLVSGFEATINKFDKNFS
AHLDDLARLSIYSTSDCEHGMA SVISRLDFNGFYTERLERLSAERSQKATPQVPVLRGPPAPAPRVAVT
AQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

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](#)

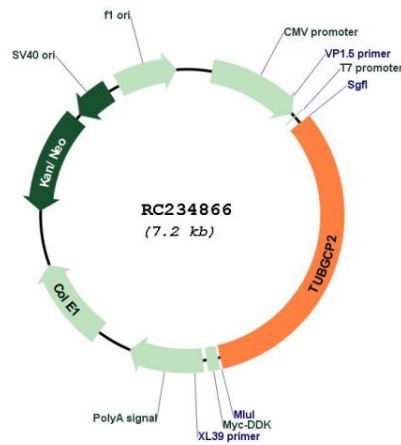
Cytogenetics: 10q26.3

Protein Families: Druggable Genome

MW: 88.5 kDa

Gene Summary: Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC234866