

Product datasheet for **RC239267**

GCP4 (TUBGCP4) (NM_001286414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCP4 (TUBGCP4) (NM_001286414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GCP4
Synonyms:	76P; GCP-4; GCP4; Grip76; MCCRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239267 representing NM_001286414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGATCCACGAAGTCTCTGGCTCTGAGCGGGTACCCTGGGTCCATTTTACCTGGAACAAGCGGAGTG
 GCCTGCAGGTATCGCAGGACTTCCCTTTCTCCACCCAGTGAGACCAAGTGTCTGAATCGACTCTGCCG
 GCTCGGCACAGACTATATTCGCTTCACTGAGTTTATTGAACAGTACACGGGCGTGTGCAACAGCAGGAT
 CACCATCCATCTCAACAGGGCCAAGGTGGGTACATGGAATCTACCTGCGGGCCTTCTGCACAGGGCTGG
 ATTCTGTTTTGCAGCCTTATCGCCAAGCACTGCTTGATTTGGAACAAGAGTTCTGGGTGATCCCCATCT
 CTCCATATCACATGTCAACTACTTCTAGACCAAGTTCAGCTTCTTTTCCCTCTGTGATGGTTGTAGTA
 GAACAAATTTAAAGTCAAAAGATTCATGGTTGTCAAATCTGGAACAGTCTACAAACACAGCTGTGGGG
 GGTGCTCCTGTTCAAGTGCAGTGGAAAAATCTGGCCGTTTGTATGGGGTGTATATAAACAGCT
 CTCAGCCTGGATGCTCCATGGACTCCTTGGACCAGCATGAAGAATTCTTTATCAAACAGGGGCCATCT
 TCTGGTAATGTCAGTGCCAGCCAGAAGAGGACGAGGAGGATCTGGGCATTGGGGGACTGACAGGAAAAAC
 AACTGAGAGAAGTGCAGGACTTGCCTGATTGAGGAAGAGAATGCTGGCACCATCTCTGAAGCAGTT
 TTCCCTACGAGTGAGATTTTGCCATCCTACATTCAGTGAGGGTTGCTGAAAAATCCTATTTGTTGGA
 GAATCTGTCCAGATGTTTGAGAAATCAAAATGTGAACCTGACTAGAAAAGGATCCATTTTGAAAAACCAGG
 AAGACACTTTTGTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCAGCTTGGTGGACTTTGAACA
 GGTGGTGGATCGCATTCGAGCACTGTGGCTGAGCATCTCTGGAAGTTGATGGTAGAAGAATCCGATTTA
 CTGGGTGAGCTGAAGATCATTAAAGACTTTACCTTCTGGGACGTGGAGAAGTGTTCAGGCCTTCATTG
 ACACAGCTCAACACATGTTGAAAAACCCACCCACTGCAGTAAGTGAAGTGTGATGTGAATGTGGCCTTTCA
 ACAGTCAGCACACAAGGTATTGCTAGATGATGACAACCTTCTCCCTCTGTTGCACTTGACAATCGAGTAT
 CACGGAAGGAGCACAAAGCAGATGCTACTCAGGCAAGAGAAGGGCCTTCTCGGGAAGTCTCCCCGGG
 AAGCCCTGCATCTGGCTGGGCAGCCCTAGGTCTTTCTACAAAGTACAGTGCCCACTACATATTCTCTT
 CACCCAGCTGTCTGGAAAAGTACAATGTTGTTTTAAGTACTTACTGAGTGTGCGCCGGGTGCAAGCT
 GAGCTGCAGCACTGTGGGCCCTACAAATGCAGCGCAAGCACCTCAAGTCGAACCAAGTGTGCAATCA
 AGTGGCGCCTAAGAAATCACATGGCATTGTTGGTGATAATCTTCAGTACTATCTCCAGGTAGATGTGTT
 GGAGTCTCAGTTCTCCAGCTGCTTCATCAGATCAATTCTACCCGAGACTTTGAAAGCATCCGATTGGCT
 CATGACCACTTCTGAGCAATTTGCTGGCTCAATCCTTTATCCTATTGAAACCTGTGTTTCACTGCCTGA
 ATGAAATCCTAGATCTCTGTACAGTTTTTGTTCGCTGGTCAGTCAGAACCTAGGCCCACTGGATGAGCG
 TGGAGCCGCCAGCTGAGCATTCTCGTGAAGGGCTTTAGCCGCCAGTCTTCACTCCTGTTCAAGATTCTC
 TCCAGTGTTCGGAATCATCAGATCAACTCAGATTTGGCTCAACTACTGTTACGACTAGATTATAACAAAT
 ACTATACCCAGGCTGGTGAAGTCTGGGCAGTTTCGGGATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239267 representing NM_001286414
 Red=Cloning site Green=Tags(s)

MIHELLLALSGYPGSIFTWNKRSLQVSQDFPFLHPSETSVLNRLCRLGTDYIRFTFIEQYTGHVQQQD
 HHPSQQGGGLHGIYLRACFTGLDSVLQPYRQALLDLEQFLGDPHLSISHVNYFLDQFQLLFPSVMVVV
 EQIKSQIHGCQILETVYKHSCGGLPPVRSALKILAVCHGVMYKQLSAWMLHGLLLDQHEEFFIKQGPS
 SGNVSAQPEEDEDLGIGGLTGKQLRELQDLRLIEEENMLAPSLKQFSLRVEILPSYIPVRVAEKILFVG
 ESVQMFENQNVNLTTRKGSILKNQEDTFAAELHRLKQQPLFSLVDFEQVVDRIIRSTVAEHLWKLMEESDL
 LGQLKIIKDFYLLGRGELFQAFIDTAQHMLKTPPTAVTEHDVNVAFQSSAHKVLDDNNLLPLLHLTIEY
 HGKEHKADATQAREGPSRETSPREAPASGWAALGLSYKVQWPLHLFTPAVLEKYNVVFYLLSVRRVQA
 ELQHCWALQMQRKHLKSNQTDIAKWRLRNHMAFLVDNLQYYLQVDVLESQFSQLLHQINSTRDFESIRLA
 HDHFLSNLLAQSFILLKPVFHCLEILDCHSFCSLVSQNLGPLDERGAAQLSILVKGFSRQSLLFKIL
 SSVRNHQINSDLAQLLLRLDYNKYTTQAGGTGSGFGM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001286414

ORF Size: 2001 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001286414.3](#)

RefSeq Size: 4181 bp

RefSeq ORF: 2004 bp

Locus ID: 27229

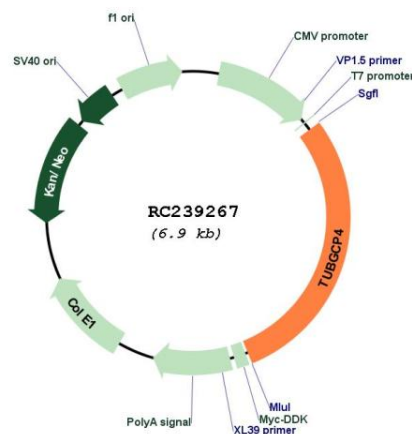
UniProt ID: [Q9UGJ1](#)

Cytogenetics: 15q15.3

MW: 76.5 kDa

Gene Summary: This gene encodes a component of the gamma-tubulin ring complex, which is required for microtubule nucleation. In mammalian cells, the protein localizes to centrosomes in association with gamma-tubulin. Crystal structure analysis revealed a structure composed of five helical bundles arranged around conserved hydrophobic cores. An exposed surface area located in the C-terminal domain is essential and sufficient for direct binding to gamma-tubulin. Mutations in this gene that alter microtubule organization are associated with microcephaly and chorioretinopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2015]

Product images:



Circular map for RC239267