

Product datasheet for **SC125678**

GCP4 (TUBGCP4) (BC000966) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCP4 (TUBGCP4) (BC000966) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCP4
Synonyms:	76P; FLJ14797; gamma tubulin ring complex protein (76p gene); GCP4; tubulin, gamma complex associated protein 4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC000966 edited
 ATGGAATCTACCTGCGGGCCTTCTGCACAGGGCTGGATTCTGTTTTGCAGCCTTATCGCC
 AAGCACTGCTTGATTTGGAACAAGAGTTCCTGGGTGATCCCCATCTCTCCATATCACATG
 TCAACTACTTCTAGACCAGTCCAGCTCTTTTTCCCTCTGTGATGGTTGTAGTAGAAC
 AAATTTAAAGTCAAAGATTTCATGGTTGTCAAATCCTGGAACAGTCTACAAACACAGCT
 GTGGGGGTTGCCTCTGTTTCAAGTGCAGTGGAAAAAATCCTGGCCGTTTGTATGGGG
 TCATGTATAAACAGCTCTCAGCCTGGATGCTCCATGGACTCCTTTGGACCAGCATGAAG
 AATTTCTTATCAAACAGGGGCCATCTTCTGGTAATGTCAGTGCCAGCCAGAAGAGGACG
 AGGAGGATCTGGGCATTGGGGGACTGACAGGAAAAACAACCTGAGAGAACTGCAGGACTTGC
 GCCTGATTGAGGAAGAGAACATGCTGGCACCATCTCTGAAGCAGTTTTCCCTACGAGTGG
 AGATTTTGCCATCTACATTCCAGTGGGGTGTCTGAAAAATCCTATTTGTTGGAGAAT
 CTGTCCAGATGTTTGAAGTCAAATGTGAACCTGACTAGAAAAGGATCCATTTTAAAA
 ACCAGGAAGACACTTTTGTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCAGCT
 TGGTGGACTTTGAACAGGTGGTGGATCGCATTGCAGCACTGTGGCTGAGCATCTCTGGA
 AGTTGATGGTAGAAGAATCCGATTTACTGGGTGAGCTGAAGATCATTAAAGACTTTTACC
 TTCTGGGACGTGGAGAATGTTTCAAGCCTTCATTGACACAGCTCAACACATGTTGAAAA
 CACCACCACTGCAGTAACCTGAGCATGATGTGAATGTGGCCTTTCAACAGTCAGCACACA
 AGGTATTGCTAGATGATGACAACCTTCTCCCTCTGTTGCACTTGACAATCGAGTATCAGG
 GAAAGGAGCACAAAGCAGATGCTACTCAGGCAAGAGAAGGGCCTTCTCGGGAAACTTCTC
 CCCGGGAAGCCCTGCATCTGGCTGGGCAGCCCTAGGTCTTTCTACAAAGTACAGTGGC
 CACTACATATTCTTCCACCCAGCTGTCTGGAAAAAATAGACAATTTTAAAAACAA
 ACAGAATGGGACTGTCTTCTGCAAGCCTACCTACAAACAGGTACAATGTTGTTTTAAGT
 ACTTACTGAGTGTGCGCCGGGTGCAAGCTGAGCTGCAGCACTGCTGGGCCCTACAATGC
 AGCGCAAGCACCTCAAGTCAAGCAGACTGATGCAATCAAGTGGCGCCTAAGAAATCACA
 TGGCATTTTTGGTGGATAATCTTCAAGTACTATCTCCAGGTAGATGTGTTGGAGTCTCAGT
 TCTCCAGCTGCTTCATCAGATCAATTCTACCCGAGACTTTGAAAGCATCCGATTGGCTC
 ATGACCACTTCTGAGCAATTTGCTGGCTCAATCCTTTATCCTATTGAAACCTGTGTTTC
 ACTGCCTGAATGAAATCCTAGATCTCTGTACAGTTTTTGTTCGCTGGTCAAGCAACC
 TAGGCCACTGGATGAGCGTGGAGCCGCCAGCTGAGCATTCTCGTGAAGGGCTTAGCC
 GCCAGTCTTCACTCCTGTCAAGATTCTCTCCAGTGTTCGGAATCATCAGATCAACTCAG
 ATTTGGCTCAACTACTGTTACGACTAGATTATAACAAATACTATACCCAGGCTGGTGAA
 CTCTGGGACGTTTCGGGATGTGAAAATTTCTGGCTCATAAATTGAAATAACAGCCAGTT
 CCCAAGGTTGTAACAGAAGATTCAAAACATCCCATTCTAGCCACACAAAATAAATATCT
 GCGGCTTAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC000966 unedited
 GAGTTAAATATTTGTATACCACTCACTATAGGCGGCCGCGNATTCANATCTGGTACCGGT
 CCGGAATCCCGGATATCGTCGACCCACGCGTCCGATGGAATCTACCTGCGGGCCTTCT
 GCACAGGGCTGGATTCTGTTTTGCAGCCTTATCGCCAAGCACTGCTTGATTTGGAACAAG
 AGTTCTGGGTGATCCCCATCTCCTCATATCACATGTCAACTACTTCTAGACCAGTTCC
 AGCTTCTTTTTCCCTCTGTGATGGTTGTAGTAGAACAATTTAAAGTCAAAGATTTCATG
 GTTGTCAAATCCTGGAACAGTCTACAAACACAGCTGTGGGGGTTGCCTCTGTTCGAA
 GTGCACTGGAAAAATCCTGGCCGTTTGTATGGGGTTCATGTATAAACAGCTCTCAGCCT
 GGATGCTCCATGGACTCCTCTTGGACCAGCATGAAGAATCTTTATCAAACAGGGGCCAT
 CTTCTGGTAATGTGAGTCCAGCCAGCCAGAAGAGGACGAGGAGGATCTGGGCATTGGGGAC
 TGACAGGAAAAACAACCTGAGAGAACTGCAGGACTTGCAGCTGATTGAGGAAGAGAACATGC
 TGGCACCATCTCTGAAGCAGTTTTCCCTACGAGTGGAGATTTGCCATCTACATTCCAG
 TGAGGGTTGCTGAANAATCCTATTTGTTGGAGAATCTGTCCAGATGTTTGAAGTCAAA
 ATGTGAACCTGACTAGAAAAAGATCCCATTTTAAAAACCAGNAAGACACTTTTTGTCTGC
 AGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCAAGCTTGGTGGACTTTGAACAGGTGGT
 GGGATCGCATTCGAGCACTGTGGCTGAGCATCTCTGAAATGATGGTAGAAGAA

Restriction Sites: NotI-NotI

ACCN:	BC000966
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC000966.2 , AAH00966.1
RefSeq Size:	1945 bp
Locus ID:	27229
Cytogenetics:	15q15.3
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]