

## Product datasheet for **SC126332**

### **GCP4 (TUBGCP4) (BC009870) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GCP4 (TUBGCP4) (BC009870) 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><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for BC009870 edited
GGACCCCGTTGAGCTGCCGAACCTCCGGGACTCCCCCGGACCCCTTCCCAGCTTCCCGT
CCGCTCCGCCGCAGCGATTGTCTCGGTGGGTTGATTCCGGCACAACCCGCCGACCCAGGG
GCCGGTGC CGCTGTGGAAGGGGAAGCACTCCCCTCGTGGTCGCCTGGAGGTGCGCTGGAG
GAGGGGGTGACATAACCAGGGACTCGAGGTCCGCCGTGGGAATGATCCACGAAGTCTCT
TGGCTCTGAGCGGGTACCCTGGTCCATTTTACCTGGAACAAGCGGAGTGGCCTGCAGG
TATCGCAGGACTTCCCTTTCCTCCACCCAGTGAGACCAGTGTCTGAATCGACTTGCC
GGCTCGGCACAGACTATATTCGCTTCACTGAGTTCATTGAACAGTACACGGGCCATGTGC
AACAGCAGGATACCATCCATCTCAACAGGGCCAAGGTGGGTTACATGGAATCTACCTGC
GGGCTTCTGCACAGGGCTGGATTCTGTTTTGCAGCCTTATCGCCAAGCACTGCTTGATT
TGGAACAAGAGTTCTGGGTGATCCCCATCTCTCCATATCACATGTCAACTACTTCTTAG
ACCAGTTCAGCTTCTTTTTCCCTCTGTGATGGTTGTAGTAGAACAAATAAAAGTCAAA
AGATTCATGGTTGCAAACTCTGAAACAGTCTACAAACAGCTGTGGGGGGTGCCTC
CTGTTGCAAGTCACTGGAAAAATCCTGGCCGTTTGTATGGGGTCATGTATAAACAGC
TCTCAGCTGGATGCTCCATGGACTCCTTGGACCAGCATGAAGAATCTTTATCAAAC
AGGGGCCATCTTCTGGTAAATGTCAGTGCCAGCCAGAAGAGGACGAGGAGGATCTGGGCA
TTGGGGGACTGACAGGAAAACAACTGAGAGAACTGCAGGACTTGCCTGATTGAGGAAG
AGAATATGCTGGCACCATCTCTGAAGCAGTTTTCCCTACGAGTGGAGATTTTGCCATCCT
ACATTCAGTGAGGGTGTCTGAAAAATCCTATTTGTTGGAGAATCTGTCCAGATGTTTG
AGAATCAAAATGTGAACCTGACTAGAAAAGGATCCATTTTGAAAAACCAGGAAGCACTT
TTGCTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCACTTGGTGGACTTTGAAC
AGGTGGTGGATCGCATTTCGAGCACTGTGGCTGAGCATCTCTGGAAGTTGATGGTAGAAG
AATCCGATTTACTGGGTGAGTGAAGATCATTAAAGACTTTTACCTTCTGGGACGTGGAG
AACTGTTTCAGGCCTTCAATTGACACAGCTCAACACATGTTGAAAAACACCACCCACTGCAG
TAACTGAGCATGATGTAATGTGGCCTTCAACAGTCAAGCACACAAGGATTGCTAGATG
ATGACAACCTTCTCCCTCTGTTGCACTTGACAATCGAGTATCACGGAAGGAGCACAAAAG
ATGCTACTCAGGCAAGAGAAGGGCCTTCTCGGAAACTTCTCCCCGGAAGCCCTGCAT
CTGGCTGGGCAGCCCTAGGTCTTTCCTACAAAGTACAGTGGCCACTACATATTCTTCA
CCCCAGCTGTCTGAAAAAGTACAATGTTGTTTTAAGTACTTACTGAGTGTGCGCCGGG
TGCAAGCTGAGCTGCAGCACTGTGGCCCTACAAATGCAGCGCAAGCACCTCAAGTCGA
ACCAGACTGATGCAATCAAGTGGCGCCTAAGAAATCACATGGCATTGTTGGTGGATAATC
TTCAGTACTATCTCCAGGTAGATGTGTTGGAGTCTCAGTTCCTCCAGCTGCTTATCAGA
TCAATTCTACCCGAGACTTTGAAAGCATCCGATTGGCTCATGACCACTTCTGAGCAATT
TGCTGGCTCAATCCTTTATCCTATTGAAACCTGTGTTCACTGCCTGAATGAAATCCTAG
ATCTCTGTACAGTTTTTGTTCGCTGGTCAAGTCAAGACCTAGGCCACTGGATGAGCGTG
GAGCCGCCAGCTGAGCATTCTCGTGAAGGGCTTAGCCGCCAGTCTTCACTCTGTTCA
AGATTCTCTCCAGTGTTCGGAATCATCAGATCAACTCAGATTTGGCTCAACTACTGTTAC
GACTAGATTATAACAAATACTATACCCAGGCTGGTGGAACTCTGGGCAGTTTCGGGATGT
GAAAAATTTCTGGCTCATAAATTGAAATAACAGCCACGTTCCCAAGTTGTAACAGAAGAT
TCAAAACATCCCATTCTAGCCACACACAATAAATATCTGCGGCTTAGTAAAAAAAAAAAA
AAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC009870 unedited GTTCAGGATATTTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGGAC CCCGTTGAGCTGCCGAACCTCCGGGACTCCCCCGGACCCCTTCCCAGCTTCCCGTCCGC TCCGCCGAGCGATTGTCTCGGTGGGTTGATTCGGCACAAACCGCCGACCCAGGGGCCG GTGCGCGTGTGGAAGGGGAAGCACTCCCCTCGTGGTCGCTGGAGGTGCGCTGGAGGAGG GGGTGACATAACCAGGGACTCGAGGTCCGCCGTGGGAATGATCCACGAAGTGTCTTGGC TCTGAGCGGGTACCCTGGGTCCATTTTACCTGGAACAAGCGGAGTGGCCTGCAGGTATC GCAGGACTTCCCTTCCACCCAGTGAGACCAGTGTCTGAATCGACTCTGCCGGCT CGGCACAGACTATATTCGCTTCACTGAGTTCATTGAACAGTACACGGGCCATGTGAACA GCAGGATCACCATCCATCTCAACAGGGCCAAGGTGGGTTACATGGAATCTACCTGCGGGC CTTCTGCACAGGGCTGGATTCTGTTTTGCAGCCTTATCGCCAAGCACTGCTTGATTTGGA ACAAGAGTTCTGGGTGATCCCCATCTCCATATCACATGTCAACTACTTCTAGACCA GTTCCAGTCTTTTTCCCTCTGTGATGGTTGTAGTAGAACAATAAAAGTCAAAGAT TCATGGTTGTCAAATCCTGGGAACAGTCTACAAACACAGCTGTGGGGGGTTGCCTCCTG TTCGAAGTGCCTGGANAAAATCCTGGCCGTTTGTGATGGGGTATGTATAAACAGCTCT CAGCCTGGATGCCATGGACTNCTCTTGACCAGCATGAGAATCTTATCAAACAGGGG CATCTTTCTGTATGTCANTGCCANCCANAAAGGACAGGAGATCTGGGCTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC009870
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC009870.2</a> , <a href="#">AAH09870.1</a>
<b>RefSeq Size:</b>	2353 bp
<b>Locus ID:</b>	27229
<b>Cytogenetics:</b>	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]