

Product datasheet for **SC115032**

GCP4 (TUBGCP4) (NM_014444) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCP4 (TUBGCP4) (NM_014444) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCP4
Synonyms:	76P; GCP-4; GCP4; Grip76; MCCR3
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 NM_014444 edited
 GAATTCGGCACGAGGGGAAGGGGAAGCACTCCCCTCGTGGTCGCCTGGAGGTGCGCTGGA
 GGAGGGGGTGACATAACCAGGGACTCGAGGTCCGCCGTGGGAATGATCCACGAACTGCTC
 TTGGCTCTGAGCGGGTACCCTGGGTCCATTTTCACCTGGAACAAGCGGAGTGGCCTGCAG
 GTATCGCAGGACTTCCCTTTCTCCACCCAGTGAGACCAGTGTCTGAATCGACTCTGC
 CGGCTCGGCACAGACTATATTGCTTCACTGAGTTCATTGAACAGTACACGGGCCATGTG
 CAACAGCAGGATCACCATCCATCTCAACAGGGCCAAGGTGGGTTACATGGAATCTACCTG
 CGGGCCTTCTGCACAGGGCTGGATTCTGTTTTGACGCTTATCGCCAAGCACTGCTTGAT
 TTGGAACAAGAGTTCCTGGGTGATCCCCATCTCTCCATATCACATGTCAACTACTTCCTA
 GACCAGTTCAGCTTCTTTTTCCCTCTGTGATGGTTGTAGTAGAACAATAAAAAGTCAA
 AAGATTTCATGGTTGTCAAATCCTGGAAACAGTCTACAAACACAGCTGTGGGGGGTTGCC
 CCTGTTGAAAGTGCAGTGGAAAAATCCTGGCCGTTTGTGATGGGGTTCATGTATAAACAG
 CTCTCAGCCTGGATGCTCCATGGACTCCTTTGGACCAGCATGAAGAATCTTTATCAA
 CAGGGGCCATCTTCTGGTAATGTCAGTGCCAGCCAGAAGAGGACGAGGAGGATCTGGGC
 ATGGGGGACTGACAGGAAAAACAAGTGAAGAACTGCAGGACTTGCCTGATTGAGGAA
 GAGAACATGCTGGCACCATCTCTGAAGCAGTTTTCCCTACGAGTGGAGATTTTGCCATCC
 TACATTCCAGTGAGGGTGTGAAAAATCCTATTTGTTGGAGAATCTGTCCAGATGTTT
 GAGAATCAAAATGTGAACCTGACTAGAAAAGGATCCATTTGAAAAACCAGGAAGACT
 TTTGCTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTTTCAGCTTGGTGGACTTTGAA
 CAGGTGGTGGATCGCATTTCGAGCACTGTGGCTGAGCATCTCTGGAAGTTGATGGTAGAA
 GAATCCGATTTACTGGGTGAGTGAAGTCAATTAAGACTTTTACCTTCTGGACGTGGA
 GAATGTTTTCAGGCTTTCATTGACACAGCTCAACACATGTTGAAAAACCAACCCACTGCA
 GTAATGAGCATGATGTGAATGTGGCCTTCAACAGTCAACACACAAGGATTGCTAGAT
 GATGACAACCTTCTCCCTCTGTTGCACTTGACAATCGAGTATCACGGAAGGAGCACAAA
 GCAGATGCTACTCAGGCAAGAGAAGGGCCTTCTCGGAAAATTCTCCCGGGAAGCCCT
 GCATCTGGCTGGGCAGCCCTAGGTCTTTCTACAAAGTACAGTGGCCACTACATATTCTC
 TTCACCCAGCTGCTCCTGAAAAAGTACAATGTTGTTTTTAAGTACTTACTGAGTGTGCGC
 CGGGTGAAGCTGAGCTGCAGCACTGCTGGGCCCTACAAATGCAGCGCAAGCACCTCAAG
 TCGAACCCAGACTGATGCAATCAAGTGGCGCTAAGAAATCACATGGCATTTTTGGTGGAT
 AATCTTCAGTACTATCTCCAGGTAGATGTGTTGGAGTCTCAGTCTCCCAGCTGCTTCAT
 CAGATCAATTCTACCCGAGACTTTGAAAGCATCCGATTGGCTCATGACCCTTCTGAGC
 AATTTGCTGGCTCAATCCTTTATCCTATTGAAACCTGTGTTTCACTGCCTGAATGAAATC
 CTAGATCTCTGTACAGTTTTTGTTCGCTGGTCAAGTCAAGAACCTAGGCCACTGGATGAG
 CGTGGAGCCGCCAGCTGAGCATTCTCGTGAAGGGCTTTAGCCGCCAGTCTTCACTCCTG
 TTCAAGATTCTCTCCAGTGTTCGGAATCATCAGATCAACTCAGATTTGGCTCAACTACTG
 TTACGACTAGATTATAACAAATACTATAACCCAGGCTGGTGGAACTCTGGGCAGTTTCGGG
 ATGTGAAAATTTCTGGCTCATAAATTGAAATAACAGCCACGTTCCCAAGTTGTAACAGA
 AGATTCAAAACATCCCATTCTAGCCACACAAAATAAATATCTGCGGCTTAGTGATAGGA
 CTCTACCTTTTCTCCTAGAAGCAGTACTGAACATCCAGGAGTACAACCTTCCCATCA
 TTCCCATGTGGAAGGGTCTCTCCATCAAGGAGAACATGTGGCATCTCTGATCCTTTACA
 TTGAGAACATTTGTTGGATATGTTCAATTTATTCAATAGTCATTTATTGAGCACCTACTAC
 GTACCTTGGTACTGTTCAAGCTGTGGGAGATACAGCGGTAACAAACAATATAGAGCAGA
 AAGTTAAATATTTATGGTTCATATGTGAAAAAGTAATTATGTTTATAAATAGACTAACT
 GCTGGATGTTACCACCAAGTAAGAAAGCAACAGGTAAGATAGGCTTTCTCTCCCTATA
 CCAAGTAATTTATACCTACACAGATTGGGCAATCTAGCTAATGAAAATATACTTAAAAG
 TATTTCTTGGCCGGCATGGTGGCTCACGCCTGTGGTCCCGGCACTTTGGGAGGCCGGG
 GCGGGCGGATCGCTGAGGTGCGGAGTTTGGGACCAGCCTGACCAACATGATGAAACCTC
 GATTCTGCTGGGAATGCAAGGATTGGCCGGGTGGTGGCATGTGCTGTGGTCCCAGCT
 GCTCAGGGAAAAAATAAAAAAAAAAATACTCGAC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014444 unedited</p> <p>TATATTATGTAATACGACTTACTATAGGGCGGCCGCAATTCGGCACGAGGGGAAGGGGA AGCACTCCCCTCGTGGTTCGGCTGGAGGTGCGCTGGAGGAGGGGTGACATAACCAGGGAC TCGAGGTCGCGCTGGGAATGATCCACGAACTGCTTTGGCTCTGAGCGGGTACCCTGGG TCCATTTTCACCTGGAACAAGCGGAGTGGCCTTTTGTATCGCAGGACTCCCTTTCTCG CACCCAGTGAGACCAGTGTCTGAATCGACTTGCCGGCTCGGCACAGACTATATTCGC TTCACTGAGTTCATTGAACAGTACACGGGCCATGTGCAACAGCAGGATCACCATCCATCT CAACAGGGCCAAGTGGGTACATGGAATCTACCTGCGGGCCTTCTGCACAGGGCTGGAT TCTGTTTTGCAGCCTTATCGCCAAGCACTGCTTGATTTGGAACAAGATTCTGGGTGAT CCCCATCTCTCCATATCACATGTCAACTACTTCTAGACCAGTTCAGCTTCTTTTTCC TCTGTGATGGTTGAGTAGAACAAATTAAGTCAAAGATTTCATGGTTGTCAAATCCTG GAAACAGTCTACAAACACAGCTGTGGGGGTTCCTCTGTTGGAAGTCACTGGANAAA AATCCTGGCCGTTTGTATGGGTATGTATAAACAGCTCTCAGCCTGGATGCTCCATGGA CTCCTCTTGACCAGCTTGAAGAATTCTATCAAACAGGGGCCATCTTCTGGTAATGTCA GTCCCCAGCCACGAGAAGACGANGAGGATCTGGGCATTGNNGGACTGACAGGAAAACAAC TGAGAGAACTGCANGACTTGCGCCTGATTGAGGAAGAGACATGCNTGCACCATCTCTGA GCAGTTTCCCTACAGTGGAGATTTTGCATCCTACATTCAGTGAGGTGCTGAAAAATCCTA TTGTTGGAGATCTGCCACAGTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014444 unedited</p> <p>TGGTTTGATGAGCGCGATANCGATTTTCGAGTTTTTTTTTTTTTTTTTTTTTCCCTGAGCAG CTGGGACCACAGGCACATGCCACCACCCGGCCAATCCTTGCAATCCCAGCAGAATCGA GGTTTCATCATGTTGGTCAAGCTGGTCCCAAACCTCCGACCTCAGGCGATCCGCCCGCC CGGCCTCCCAAAGTGCCGGGACCACAGGCTTTAGCCACCATGCCCGCCCAAGAAATACT TTAAGTATATTTTTCATTAGCTAGAATTGCCAATCTGTGTAGGTATAAATTACTTGGTA TAGGGAGAGAGAAAGCCTATCTTACCTGTTGCTTTCTTACTTGGTGGTAACATCCAGCAG TTAGTCTATTTATAAACATAATTACTTTTTACATATGAACCATAAAAATTTAACTTTT TGCTCTATATTGTTTGTACCCTGTATCTCCACAGCTTGAACAGTACCAAGGTACGT AGTAGGTGCTCAATAAATGACTATTGAATAAATGAACATATCCCACAAATGTTCTCAATG TAAAGGATCAGAGATGCCACATGTTCTCCTTGATGGGAGAGACCCTTCCCCTGGGAATGA TGGGAAGGATTGACTCTGGATGTTCAATAAAGTGGTTTTAGAAAAAGGTTAAGTCCATC ACTAACCCCAAATTTTTATTTGTGTGCGGCTTCAATGGGTCGTTTTTAATTTTTTGTTA CAACCTGGGAAACCGGGTTTTTTTTTCAATTTTTAACCCAAATATTTCCCATTCGGAAACT CCCCAAATTTCCCCCGGGATAAGCTCTTCGTTTACTTAATCTACACCGATTCGGCCC CAATGGAGTGTGCGGGGTTCCCAACACCGGAAAATTTCAACCGCGGAAAACCTGGGG TAACACCTCATCAAATGCTCCCTGCGCGCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_014444
Insert Size:	3000 bp
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:

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_014444.2](#), [NP_055259.2](#)

RefSeq Size: 3087 bp

RefSeq ORF: 2001 bp

Locus ID: 27229

UniProt ID: [Q9UGJ1](#)

Cytogenetics: 15q15.3

Domains: Spc97_Spc98

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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The encoded isoform (b) is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.