

# Recombinant Human TUBGCP4 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TUBGCP4-2188H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | TUBGCP4 MS Standard C13 and N15-labeled recombinant protein (NP_055259) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 76 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MIHELLLALSGYPGSIFTWNKRSGLQVSQDFPFLHPSETSVLNRLCRLGTDYIRFTEFI<br>EQYTGHVQQQDHHPSQQGQGGGLHGIYLRAFCTGLDSVLQPYRQALLDLEQEFLGD<br>PHLSISHVNYFLDQFQLLFPSVMVVVEQIKSQKIHGCQILETVYKHSCGGLPPVRSAL<br>EKILAVCHGVMYKQLSAWMLHGLLLDQHEEFFIKQGPSSGNVSAQPEEDEEDLGIG<br>GLTGKQLRELQDLRLIEEENMLAPSLKQFSLRVEILPSYIPVRVAEKILFVGESVQMFE                                                                                                                                                                                                                                                                                                                                    |

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NQNVNLTRKGSILKNQEDTFAAELHRLKQQPLFSLVDFEQVVDRIIRSTVAEHLWKLM  
VEESDLLGQLKIIKDFYLLGRGELFQAFIDTAQHMLKTPPTAVTEHDVNNAFQQSAHK  
VLLDDDNLLPLLHLTIEYHGKEHKDATQAREGPSRETSPREAPASGWAALGLSYKVQ  
WPLHILFTPAVLEKYNVVFKEYLLSVRRVQAEQHCWALQMQRKHLKSNQTDIAIKWR  
LRNHMAFLVDNLQYYLQVDVLESQFSQLLHQINSTRDFESIRLAHDHFLSNLLAQSF  
LLKPVFHCLEILDLCHSFCSLVSQNLGPLDERGAAQLSVKGFQRSSLLFKILSSV  
RNHQINSDLAQLLLRLDYNKYTTQAGGTGSGMTRTRPLEQKLISEEDLAANDILDY  
KDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** TUBGCP4 tubulin gamma complex associated protein 4 [ Homo sapiens (human) ]

**Official Symbol** TUBGCP4

**Synonyms** TUBGCP4; tubulin, gamma complex associated protein 4; gamma-tubulin complex component 4; 76P; FLJ14797; gamma-ring complex protein 76 kDa; gamma tubulin ring complex protein (76p gene); GCP4; h76p; GCP-4; hGCP4; hGrip76;

**Gene ID** 27229

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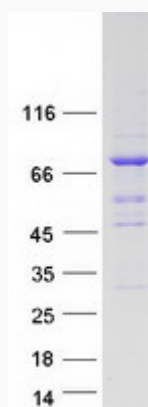
**mRNA Refseq** [NM\\_014444](#)

**Protein Refseq** [NP\\_055259](#)

**MIM** [609610](#)

**UniProt ID** [Q9UGJ1](#)

**SDS-PAGE**



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