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Product datasheet for SC337161

GCP4 (TUBGCP4) (NM_001286414) Human Untagged Clone

Product data:

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

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Fully Sequenced ORF:

>SC337161 representing NM_001286414.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCCACGAACTGCTCTTGGCTCTGAGCGGGTACCCTGGGTCCATTTTCACCTGGAACAAGCGGAGT
GGCCTGCAGGTATCGCAGGACTTCCCTTTCCTCCACCCCAGTGAGACCAGTGTCCTGAATCGACTCTGC
CGGCTCGGCACAGACTATATTCGCTTCACTGAGTTCATTGAACAGTACACGGGCCATGTGCAACAGCAG
GATCACCATCCATCTCAACAGGGCCAAGGTGGGTTACATGGAATCTACCTGCGGGCCTTCTGCACAGGG
CTGGATTCTGTTTTGCAGCCTTATCGCCAAGCACTGCTTGATTTGGAACAAGAGTTCCTGGGTGATCCC
CATCTCTCCATATCACATGTCAACTACTTCCTAGACCAGTTCCAGCTTCTTTTTCCCTCTGTGATGGTT
GTAGTAGAACAAATTAAAAGTCAAAAGATTCATGGTTGTCAAATCCTGGAAACAGTCTACAAACACAGC
TGTGGGGGGTTGCCTCCTGTTCGAAGTGCACTGGAAAAAATCCTGGCCGTTTGTCATGGGGTCATGTAT
AAACAGCTCTCAGCCTGGATGCTCCATGGACTCCTCTTGGACCAGCATGAAGAATTCTTTATCAAACAG
GGGCCATCTTCTGGTAATGTCAGTGCCCAGCCAGAAGAGGACGAGGAGGATCTGGGCATTGGGGGACTG
ACAGGAAAACAACTGAGAGAACTGCAGGACTTGCGCCTGATTGAGGAAGAGAACATGCTGGCACCATCT
CTGAAGCAGTTTTCCCTACGAGTGGAGATTTTGCCATCCTACATTCCAGTGAGGGTTGCTGAAAAAATC
CTATTTGTTGGAGAATCTGTCCAGATGTTTGAGAATCAAAATGTGAACCTGACTAGAAAAGGATCCATT
TTGAAAAACCAGGAAGACACTTTTGCTGCAGAGCTGCACCGTCTCAAGCAGCAGCCACTCTTCAGCTTG
GTGGACTTTGAACAGGTGGTGGATCGCATTCGCAGCACTGTGGCTGAGCATCTCTGGAAGTTGATGGTA
GAAGAATCCGATTTACTGGGTCAGCTGAAGATCATTAAAGACTTTTACCTTCTGGGACGTGGAGAACTG
TTTCAGGCCTTCATTGACACAGCTCAACACATGTTGAAAACACCACCCACTGCAGTAACTGAGCATGAT
GTGAATGTGGCCTTTCAACAGTCAGCACACAAGGTATTGCTAGATGATGACAACCTTCTCCCTCTGTTG
CACTTGACAATCGAGTATCACGGAAAGGAGCACAAAGCAGATGCTACTCAGGCAAGAGAAGGGCCTTCT
CGGGAAACTTCTCCCCGGGAAGCCCCTGCATCTGGCTGGGCAGCCCTAGGTCTTTCCTACAAAGTACAG
TGGCCACTACATATTCTCTTCACCCCAGCTGTCCTGGAAAAGTACAATGTTGTTTTTAAGTACTTACTG
AGTGTGCGCCGGGTGCAAGCTGAGCTGCAGCACTGCTGGGCCCTACAAATGCAGCGCAAGCACCTCAAG
TCGAACCAGACTGATGCAATCAAGTGGCGCCTAAGAAATCACATGGCATTTTTGGTGGATAATCTTCAG
TACTATCTCCAGGTAGATGTGTTGGAGTCTCAGTTCTCCCAGCTGCTTCATCAGATCAATTCTACCCGA
GACTTTGAAAGCATCCGATTGGCTCATGACCACTTCCTGAGCAATTTGCTGGCTCAATCCTTTATCCTA
TTGAAACCTGTGTTTCACTGCCTGAATGAAATCCTAGATCTCTGTCACAGTTTTTGTTCGCTGGTCAGT
CAGAACCTAGGCCCACTGGATGAGCGTGGAGCCGCCCAGCTGAGCATTCTCGTGAAGGGCTTTAGCCGC
CAGTCTTCACTCCTGTTCAAGATTCTCTCCAGTGTTCGGAATCATCAGATCAACTCAGATTTGGCTCAA
CTACTGTTACGACTAGATTATAACAAATACTATACCCAGGCTGGTGGAACTCTGGGCAGTTTCGGGATG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_001286414

Insert Size: 2004 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_001286414.2
RefSeq Size:	4197 bp
RefSeq ORF:	2004 bp
Locus ID:	27229
UniProt ID:	Q9UGJ1
Cytogenetics:	15q15.3
MW:	76.1 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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). 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.