

Product datasheet for SC127127

TUBGCP5 (NM_052903) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Tag: Tag Free

Symbol: TUBGCP5

Synonyms: GCP5

Mammalian Cell None

Selection:

Vector: pCMV6-XL4

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC127127 sequence for NM_052903 edited (data generated by NextGen Sequencing)

```
ATGGCGCGGCACGGGCCACCGTGGAGTCGGTTGGACGCGCAGCAGGAGCGCGACGTGCGG
GAGCTCGTCCGGGTGTCGCCGGCCTCCAGGACGAGGCAGACCCCAACTTCCAGCTCGCC
CTAAACTTCGCCTGGTCCAACCTTCAGATTTTCATCGTTTCTTGGATGTCAACAGCCACAAA
ATAGAAAAACAATCGAAGGAATTTATGAAAAATTTGTCATTCTGATCTAAGCAAA
GCTGCTAGTTGGAAGAGATTAACGGAGGAATTTCTAAATGCACCACTTCCCAGTATAAAG
GAAATAAAGACAGATGCACATTATCCATACTGTCACTTCTTCTGTGTCTGTCAGACTCT
CCTTCAAACAGCAGTTATGTGGAGACACCAAGAAATAAAGAAGTGGAAAAGAAAGATGAT
TTCGACTGGGAAAATACTTGATGGAAGATGAAGAAATGGACATTGGTCCGTACATGGAC
ACACCAAATTGGTCTGAAGAAAGTGAAGAGGAAAATGATCAACAGCCCTTAAGCAGAGAG
GACTCTGGAATTCAGGTAGACAGGACACCGTTAGAAGAACAAGATCAAAACAGAAAACGTG
GATCCTTGATCAGTTGGAAGATGAGCCAGATGACCGAAGCTGGCTGGAACATCATGTG
GTCCATCAGTACTGGACAGCCAGGCCCTCCAGTTTCTCATAGTTTACATTTGCACTCT
AATTTAGCTGCTGTCTGGGACCAACACTTGTACAGCAGTGATCCATTGTATGTTCCAGAT
GACAGGGTTTTGTTACTGAGACTCAGGTTATTCGGGAAACCTATGGTTACTTTAGGA
GTGAAAAGCTCTTTATATTTTCAGTTGATAGATGGGAAGGTAAGTGTGAGAAAATATT
ATAGTAACATCATTTAACACATAGCTGTTTACGATCTGTGCTGGAACAAATAGCAGCATAT
GGCCAGGTTGTGTTTCGACTCCAGGAGTTTATTGATGAAGTCATGGGACACAGTTCTGAG
AGCATGCTGCCTGGAAGTGGGTCTGTTCTTAAGAAGTCAACTGAAGCTCCCTTTAGAACC
TACCAGGCTTTTCATGTGGGCCCTGTACAAATATTTTATTAGTTTCAAAGAGGAAGTTGCA
GAAATTGAGAAGTGCATCATCAATAATGATACTACAATAACTCTTGCAATAGTGGTGGAC
AAGTTGGCACCTCGATTGTCTCAGCTCAAGGTTCTGCACAAAGTGTTAGTACTGGAGTA
GCAGAAAGTTCCACCTGATACTCGAAATGTCGTCCGGGCCTCTCACCTGCTTAACACCCGTG
TACAAGGCCATTCTTGAATATGACAATGTTGGAGAAGCCTCTGAGCAAACCGTCTCCCTC
CTTTTCTCTCTGCGGTGGAACCGGTGCGGCCCTTACCTGCAGACGGTGGACGAGTGGATC
GTGCACGGGCACCTGTGGGATGGCGCCAGGAGTTTATCATCCAGAGAAAACAAAATGTT
CCAGTTAATCACAGAGACTTCTGGTATGCAACTTACACGTTATATAGCGTATCAGAAAAA
```



ACAGAAATGAAGAAAAATGAGTGATAACGCTAGTGCGAGTTCCGGCAGTGACCAGGGG
CCCTCCAGCAGGCAGCACACCATGGTGTCTTCTCAAACCTGTCTGAAGCAGATCATA
ATGGCTGGCAAGTCGATGCAGCTGCTGAAGAACCTGCAGTGTGCGGAGAGCACCACCTGC
CAGGCAGGAGCCAGAGATGCAGAAAAGAAAAGTTTATACACTCTCTTTCTGGAATCTGTA
CAGTCCCGTCTTCGACATGGAGAAGATTCCACTCCACAGGTTCTTACTGAGCAACAGGCA
ACCAAGGAGAACCTGATGAAGATGCAGTCCATTGCTGAAAGCCATCTTGAAGTGGATGAT
GTTTCATGATCCACTGCTTGCCATTAACTTTGCAAGGATGTATTTGGAGCAGAGTGACTTT
CACGAGAAGTTTGTGGTGGTGTATGTGTGGATAGATCATCGGAATCTGTGACATGC
CAGACTTTTGAATTAACGCTGAGATCCTGCCTCTATCCTCATATTGACAAGCAGTATCTA
GATTGCTGTGGAATCTCATGCAAACCTCTAAAAAAGATTACAGGTTGGTAGAATACTTG
CAAGCTATGAGGAATTTTTCTTAATGGAAGGAGGAGATACCATGTATGACTTCTACACG
TCAATTTTTGATAAAATAAGAGAAAAGGAAACATGGCAGAATGTGTCTTTTCTTAATGTC
CAACTCCAAGAAGCAGTAGGACAGCGTTATCCTGAAGATAGTTCACGTCTATCTATATCT
TTTGAAAATGTTGACACAGCTAAGAAGAAGCTGCCTGTTTATATCTTAGATGGTCTGACC
CTCAGCTACAAGGTCCCATGGCCCGTGACATTGTTATAAGTTTGAATGTCAAAAAATT
TATAATCAAGTGTTTCTCTCTTATTGCAATAAAGTGGGCAAAATATAGTCTGGATGTT
TTACTTTTTGGTGAAGTGGTGTAGTACTGCAGAAAAACACGACTTAAAGAAGGCCTTATA
CATGAACAAGACAGTTGCTCAGTTCGGACCACAAAAAGAACAGTAAGACAGCAGATT
CATCGCATGTTCTCTTAAGAGTGAAGCTCATGCATTTCTGGAACAGCTTGACAACATAC
ATCATGACCAGGATTCTACACAGTACAGGGCTGGAGTTTCAACATCAAGTCGAGGAAGCC
AAGGATTTAGATCAATTGATTAATAATTTACTATAGGTATCTGTCAACCATCCATGACCGG
TGTCTGCTGAGAGAAAAGTCAAGCTTTGTGAAAGAAGCTATCATGAAGGTGTTGAAGTTG
GCTCTCATGTTTGACAGCGTTGGCAGGCAGGCCTGGGCACCTGGCGAATGGAATCTATA
GAGAAAATGGAATCTGATTTTAAAACTGCCATATGTTTCTGTGAACCATTTTAAACAAA
GCCGTCTGTAGAGGATCCTTTCCCATTTGGAATCTCTAGCGTTGTCACTCATGGCTGGC
ATGGAACAAAGTTAA

Clone variation with respect to NM_052903.4

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_052903 unedited
GGCAGATTTTGTATACGACTTCTATAGGCGGCNCGGAATTGCGACGAGGCGGAACATGG
CGCGGCACGGGCCACCGTGGAGTCGGTTGGACGCGCAGCAGGAGCGCAGCTGCGGGAGC
TCGTCCGGGGTGTCCGCGGCCTCCAGGACGAGGCAGACCCCACTTCCAGCTCGCCCTAA
ACTTCGCCTGGTCCAACCTTCAGATTTTCATCGTTTCTTGGATGTCAACAGCCACAAAATAG
AAAAACAATCGAAGGAATTTATGAAAAATTTGCATTCTCTGATCTAAGCAAAGCTG
CTAGTTGGAAGAGATTAACGGAGGAATTTCTAAATGCACCACCTTCCAGTATAAAGGAAA
TAAAGACAGATGCACATTATCCATACTGTCACTTCTTCTGTGTCTGTGCACTCTCCTT
CAAACAGCAGTTATGTGGAGACACCAAGAAATAAAGAAGTGGAAAAAGAAAGATGATTTCG
ACTGGGGAATACTTGATGGAAGATGAAGAAATGGACATTGGTCCGTACATGGACACAC
CAAATTGGTCTGAAGAAAGTGAAGAGGAAATGATCAACAGCCCTTAAGCAGAGAGGACT
CTGGAATTCAGGTAGACAGGACACCGTTAGAAGAACAAGATCAAAACAGAAAAGTGGATC
CTTGATCAGTTGGAAGCAGATGAGCCAGATGACCGAAGCTGGCTGGAACATCATGTGG
TCCATCAGTACTGGACAGCCAGGCCCTNCCAGTTTCTCATAGTTTACATTTGCACTCTA
ATTTAGCTGTGTCTGGGACCAACACTTGTACAGCAGTGATCCCATTTGTATGTCCAGATG
ACAGGNNTTGGTTACTGAGACTCAGGTTATTCGNAACCCCTATGNTACTTTTCAAGTG
AAAAGCTTTTTNTTTCAGTGATAGATGGGAAGTTACTGTGA

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_052903 unedited
 NGGATTATTATGTACGCGGCCGATTCTANATCGAGTTTTTTTTTTTTTTTGGATTTT
 AAGTCCTTTAATTTATTTTGAATATCAGTAATTACATTTTCAAAATATGATATAATTTAA
 AGGTATCAGTACCATAAATCTGTATCTTACAGTAGGAAATGTAAGAGTAAACAGCCTATA
 TACACTTTGTACTACTGACACAATTTTATGTATACAACCTCTATACAGTATCTACTAATCT
 CCAGAAAACCCACCTACAATCCATCTGTCTGGACTGTGGGCAAGTGGTCTTTCTGAGTC
 AGGGTCTCACTCTGTCAACCCAGTTGCACTGCAGTAGTCAATCATGGCTCACTGTAGCC
 TTGACCTCCTGGGCTCAAGCAATCCTCCCATCTTTGCCTCCTGAGTAGCTGGGACTACAG
 GTACACACCACCATGTCTGGATACATTTTGTATTTTGGTAACACCGCGGGTTTTACCA
 TGTGTGCCAGGCTGGCTCAAACCTCTGGGCTCAAGTGATCTGCCTGTCTTGGCCTCCCA
 TCGTGCTGGGATTAGAGGCATGAGCGACTGTGCCAGGCTGACTGTGGACAAGTTTACAA
 ATAAACCAAAATAAAAAATATTTTCACTTTTCAGCTGCACATGGTGAAATGTACATGTAT
 GATGACAAAGTCGAGATATTTATTACGCTGAAGACATTTAACTTTGTTCCATGCCAGCC
 ATGAGTGACAACGCTAGAGATTCCAAATGGGGAAGGATCCTCTACAGACGGCTTTGTTT
 AAAATGGTTACAAGAAACATATGGCAGTTTTTNAATCAGATTCCATTTTCTCTATAGAT
 TCCATTGCGCAAGTGCCAGGCCTGCCTGCCAACCGTCTGCAAACATGAGAGCCAAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_052903

Insert Size:

4000 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.

Note:

Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq:
[NM_052903.2](#), [NP_443135.2](#)
RefSeq Size:

3830 bp

RefSeq ORF:

3075 bp

Locus ID:

114791

UniProt ID:
[Q96RT8](#)

Cytogenetics: 15q11.2

Domains: Spc97_Spc98

Gene Summary: Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome.
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes isoform a. Isoforms a and b are identical in length but differ in their C-termini.