

## Product datasheet for **MG210065**

### **Tubgcp5 (BC027075) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | Tubgcp5 (BC027075) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | Tubgcp5                                   |
| Synonyms:                 | MGC38608, GCP5                            |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MG210065 representing BC027075  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGGGGCACAGCTCTGAAAGTCTACCACCGGAAATGGCCCCATACCTAAGAAGCAACCTGACGCTCCCT  
 TTAGAACCTACCAGGCCTTCATGTGGGCCCTCTACAAATACTTCATTAACCTCAAGGAAGAGCTTACAGA  
 CATTGAGAAGTGTGTCATCAGTAGTGATACAACCATAACACTTGCAATAGTGGTGAACAAGTTGGCACCT  
 CGATTGGCGCAGCTAAAGGTCTGGACAAAGTGTAGTACTGGAGTGGCAGAAGTTCCACCTGATACTC  
 GCAATGTCGTCCGGGCATCTCACCTGCTTAACACCCTGTACAAGGCCATTCTTGAATATGACAATGTTGG  
 CGAAGCCTCTGAACAAACAGTCTCCCTCTGTTCTCTCTGGGTGAAACAGTGAGGCCCTACCTACAG  
 ACGGTAGATGAATGGATCGTCCATGGACACCTATGGGACGGCGCAAGGGAGTTTATCATACAGAGGAATA  
 AAAACGTTCCAGTAAATCACAGAGACTTCTGGTATGCAACGTACACACTCTATAGCGTATCTGAGAAGAC  
 AGAGAATGAAGACAAAGTGAGTGACAGTGCCAGTGCCAGCTCTGGCAGTGACCAGGGGCCCTCGAGCAGA  
 CAGCACACCATGGTGTCTTCTGAAGCCTGTCTGAAGCAGATCATAATGGCTGGCAAGTCAATGCAGC  
 TGCTGAAGAACCTCAACTGTGCAGAGGGCCCTGCGTGCCAGGCAGCAGCCAGAGATGCAGAAAGAAAAAG  
 CTTATATACCCTCTTCTGGAATCTATACAGTTACGTCTTCAACATGGAGAAGATTCTGCTCCACACATT  
 GTTAATGAAGATCAAACAACCAAGAGAACCTTATAAAGATGCAGTCCATTGCTGAAAGGCACCTTGAGC  
 TAGATGATATTGATGACCACTGTTGGCCATCACTTTGCAAGGTTGTATTTGGAGCAGAGCGACTTTCA  
 CGAGAAGTTTGTGGTGGTGACATATGCGTGGATAGATCATCAGAGTCTGTGACCTGCCAGACTTTTGAA  
 TTAACACTGAGGTCTTGCCTCTATCCTCACATTGATAAGCAGTATCTACATTGCTGTGGGAATCTCATGC  
 AAACCTTAAAGAGAGATTTCAAGCTGGTGGAGTACTTGCAGGCCATGAGGAATTTTTCTTGATGGAAGG  
 TGGAGACACCATGTATGACTTCTATACTTCAATTTTGTATAAAAAAGAGAAAAGGAAACCTGGCAGAAT  
 GTGTCTTTTCTTAATGTGCAGCTCCAAGAAGCAGTAGGACAGCGCTATCCTGAAGACAGTTTACGTTTAT  
 CTATATCTTTGAAAATGTTGATACAACCTAAGAAGAACTACCGTTTATATCTTAGATGGTCTTACCCT  
 AAGCTACAAGTCCCATGGCCTGTGGACATTGTTATAAGTGTAGAATGTCAAAAAATTTATAATCAGGTT  
 TTCCTTCTCTATTGCAAATAAAATGGGCAAAATACAGCCTGGATGTTCTACTATTTGGTGAAGTGGGTA  
 ATGCTGCTGAAAGATCCAAGCAAAGGAAGACATTCCACGTGATCAGGACACACCCTCCAGTTTGGACC  
 ACCAAAAGAGTCATTAAGACAGCAGATTTCATCGCATGTTTCTCTTAAGAGTGAAGCTCATGCACTTTGTG  
 AATAGTTTACACAACCTACATCATGACCAGGATTCTTACAGTACAGGGCTGGAGTTTCAGCATCAAGTTG  
 AGGAAGCCAAAGATTTAGATCAGTTGATTAATAATCACTACAGGTATTTGTCAACCATCCATGATCGATG  
 TCTGCTGAGAGAAAAGGTCAGCTTCGTGAAAGAAGCCATCATGAAAGTGTGAACTTGGCGCTCATGTTT  
 GCAGAAGGTTGGCAGGCAGGCCTAGGGGCTTGGCAATGGAATCTATAGAGAAGATGGAATCTGACTTTA  
 AAACTGCCACATGTTTCTGGTAACCATCTTAAATAAAGCTGTGTGTAGAGGATCTTTTCCCCACTTGGA  
 ATCTCTTGCACTGTCGCTCATGGCTGGCATGGAGCAAAGT

**ACGCGT**ACGCGGCGGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210065 representing BC027075  
 Red=Cloning site Green=Tags(s)

MGHSSESLPPGNGPIPKKQPDAPFRTYQAFMWALYKYFINFKEELTDIEKCVISSDTTITLAIVVNKLAP  
 RLAQLKVLVDKVFSTGVAEVPDTRNVVRASHLLNTLYKAILEYDNVGEASEQTVSLLFSLWVETVRPYLQ  
 TVDEWIVHGLWDGAREFIIQRNKNVPVNRDFWYATYTLYSVSEKTENEDKVSDSASASSGSDQGPSSR  
 QHTMVSFLKPVLKQIIMAGKSMQLLNCAEGPACQAAARDAERKSLYTLFLESIQRLRHGEDSAPHI  
 VNEDQTTKENLIKMQSIAERHLELDDIHDPLLAINFARLYLEQSDFHEKFAGGDICVDRSSESVTCQTFE  
 LTLRSCLYPHIDKQYLHCCGNLMQTLKRDFRLVEYLQAMRNFFLMEGGDTMYDFYTSIFDKIREKETWQN  
 VSFLNVQLQEAVGQRYPEDSLRLSISFENVDTTKKLPVHILDGLTLYKVPWPVDIVISVECQKIYNQV  
 FLLLLQIKWAKYSLDVLLFGELGNAAERSQAKEDI PRDQDTPSQFGPPKESLRQQIHRMFLLRVKLMHFV  
 NSLHNYIMTRILHSTGLEFQHQVEEAKDLQDLIKIHYRYLSTIHDRCLLREKVSFVKEAIMKVLNLALMF  
 AEGWQAGLGAWQMESIEKMESEDFKNCHMFLVTILNKAVCGRGSPHLESLALSLMAGMEQS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC027075

**ORF Size:** 2070 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [BC027075](#), [AAH27075](#)

**RefSeq Size:** 2759 bp

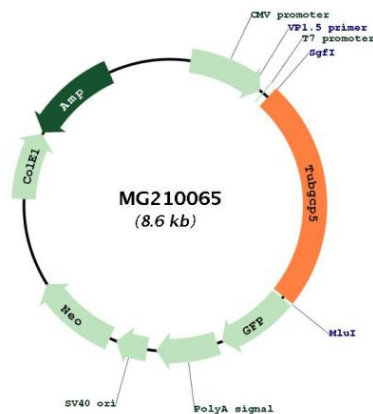
**RefSeq ORF:** 2072 bp

**Locus ID:** 233276

**Cytogenetics:** 7 B5

**Gene Summary:** Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG210065