

Product datasheet for **MR210065**

Tubgcp5 (BC027075) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubgcp5 (BC027075) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubgcp5
Synonyms:	MGC38608, GCP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210065 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

 ATGGGGCACAGCTCTGAAAGTCTACCACCGGAAATGGCCCCATACCTAAGAAGCAACCTGACGCTCCCT
TTAGAACCTACCAGGCCTTCATGTGGGCCCTCTACAAATACTTCATTAACCTCAAGGAAGAGCTTACAGA
CATTGAGAAGTGTGTCATCAGTAGTGATACAACCATAACACTTGCAATAGTGGTGAACAAGTTGGCACCT
CGATTGGCGCAGCTAAAGGTCTGGACAAAGTGTAGTACTGGAGTGGCAGAAGTTCCACCTGATACTC
GCAATGTCGTCCGGGCATCTCACCTGCTTAACACCCTGTACAAGGCCATTCTTGAATATGACAATGTTGG
CGAAGCCTCTGAACAAACAGTCTCCCTCTGTTCTCTCTGGGTGAAACAGTGAGGCCCTACCTACAG
ACGGTAGATGAATGGATCGTCCATGGACACCTATGGGACGGCGCAAGGGAGTTTATCATACAGAGGAATA
AAAACGTTCCAGTAAATCACAGAGACTTCTGGTATGCAACGTACACACTCTATAGCGTATCTGAGAAGAC
AGAGAATGAAGACAAAGTGAGTGACAGTGCCAGTGCCAGCTCTGGCAGTGACCAGGGGCCCTCGAGCAGA
CAGCACACCATGGTGTCTTCTGAAGCCTGTCTGAAGCAGATCATAATGGCTGGCAAGTCAATGCAGC
TGCTGAAGAACCTCAACTGTGCAGAGGGCCCTGCGTGCCAGGCAGCAGCCAGAGATGCAGAAAGAAAAAG
CTTATATACCCTCTTCTGGAATCTATACAGTTACGTCTTCAACATGGAGAAGATTCTGCTCCACACATT
GTTAATGAAGATCAAACAACCAAGAGAACCTTATAAAGATGCAGTCCATTGCTGAAAGGCACCTTGAGC
TAGATGATATTCATGACCCACTGTTGGCCATCACTTTGCAAGGTTGTATTTGGAGCAGAGCGACTTTCA
CGAGAAGTTTGTGGTGGTGACATATGCGTGGATAGATCATCAGAGTCTGTGACCTGCCAGACTTTTGAA
TTAACTGAGGTCTTGCCTCTATCCTCACATTGATAAGCAGTATCTACATTGCTGTGGGAATCTCATGC
AAACCTTAAAGAGAGATTTCAAGCTGGTGGAGTACTTGCAGGCCATGAGGAATTTTTTCTGATGGAAGG
TGGAGACACCATGTATGACTTCTATACTTCAATTTTGTATAAAATAAGAGAAAAGGAAACCTGGCAGAAT
GTGTCTTTTCTTAATGTGCAGCTCCAAGAAGCAGTAGGACAGCGCTATCCTGAAGACAGTTTACGTTTAT
CTATATCTTTGAAAATGTTGATACAACCTAAGAAGAACTACCCGTTTATATCTTAGATGGTCTTACCCT
AAGCTACAAGTCCCATGGCCTGTGGACATTGTTATAAGTGTAGAATGTCAAAAATTTATAATCAGGTT
TTCCTTCTCCTATTGCAAATAAAATGGGCAAAATACAGCCTGGATGTTCTACTATTTGGTGAAGTGGGTA
ATGCTGCTGAAAGATCCCAAGCAAAGGAAGACATTCCACGTGATCAGGACACACCCTCCAGTTTGGACC
ACCAAAAGAGTCATTAAGACAGCAGATTTCATCGCATGTTTCTCTTAAGAGTGAAGCTCATGCACTTTGTG
AATAGTTTACACAACCTACATCATGACCAGGATTCTTACAGTACAGGGCTGGAGTTTCAGCATCAAGTTG
AGGAAGCCAAAGATTTAGATCAGTTGATTAATAATCACTACAGGTATTTGTCAACCATCCATGATCGATG
TCTGCTGAGAGAAAAGGTCAGCTTCGTGAAAGAAGCCATCATGAAAGTGTGAACTTGGCGCTCATGTTT
GCAGAAGGTTGGCAGGCAGGCCTAGGGGCTTGGCAATGGAATCTATAGAGAAGATGGAATCTGACTTTA
AAAAGTCCACATGTTTCTGGTAACCATCTTAAATAAAGCTGTGTGTAGAGGATCTTTCCCCACTTGGA
ATCTCTTGCACTGTCGCTCATGGCTGGCATGGAGCAAAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210065 protein sequence
 Red=Cloning site Green=Tags(s)

MGHSSESLPPGNGPIPKKQPDAPFRTYQAFMWALYKYFINFKEELTDIEKCVISSDTTITLAIVVNKLAP
 RLAQLKVLDDKVFSTGVAEVPDTRNVVRASHLLNTLYKAILEYDYNVGEASEQTVSLLFSLWVETVRPYLQ
 TVDEWIVHGLWDGAREFIIQRNKNVPVNRDFWYATYTLYSVSEKTENEDKVSASASSGSDQGPSSR
 QHTMVSLFKPVLKQIIMAGKSMQLLKNLCAEGPACQAAARDAERKSLYTLFLESIQLRLQHGEDSAPHI
 VNEDQTTKENLIKMQSIAERHLELDDIHDPLLAINFARLYLEQSDFHEKFAGGDICVDRSSESVCQTFE
 LTLRSCLYPHIDKQYLHCCGNLMQTLKRDFRLVEYLQAMRNFFLMEGGDTMYDFYTSIFDKIREKETWQN
 VSFLNVQLQEAVGQRYPEDSLRLSISFENVDTTKKLPVHILDGLTLYKVPWPVDIVISVECQKIYNQV
 FLLLLQIKWAKYSLDVLLFGELGNAAERSQAKEDI PRDQDTPSQFGPPKESLRQQIHRMFLLRVKLMHFV
 NSLHNYIMTRILHSTGLEFQHQVEEAKDLQDLIKIHYRYLSTIHDRCLLREKVSFVKEAIMKVLNLALMF
 AEGWQAGLGAWQMESIEKMESEDFKNCHMFLVTILNKAVCRGSFPHLESLALSLMAGMEQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

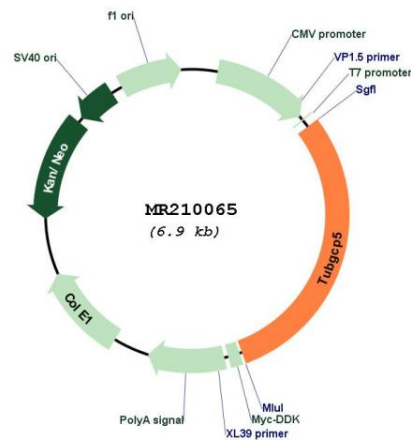
Locus ID: 233276

Cytogenetics: 7 B5

MW: 79.2 kDa

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

Product images:



Circular map for MR210065