

## Product datasheet for **MR231359**

### **Tubgcp2 (NM\_001286007) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tubgcp2 (NM_001286007) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tubgcp2
Synonyms:	1700022B05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR231359 representing NM\_001286007  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGAATTTTCGGATTACCATGATGTCAATGAGCTGCTCAGCCTGCTCCGCATCCATGGCGGGGATG  
 GGGCTGAGGTCTACATTGACCTGCTGCAGAAGAACCAGGACGCCGTATGTACAACCACAGCTCTGCCCA  
 CAGTGCCAAGGTCAAATTTGCAGAAATTTCTCGAACTCCTGAGGACTTTTTAAAGAAATATGATGAACTG  
 AAATCTAAAAATACAAGGAACCTTGACCCACTGGTGTACCTGTTATCAAACTCACAGAAGACAAAGAGA  
 CACTTCAGTTTTTGAACAGAATGCAAAGGAAAGAGCTGAGCTTGACGCTAGTGTGCAACTAGCAACAC  
 CACCAGCTTCAGCATCCCTGTTGCAGCCTTAAGATGTCCACACAAGAGCTAGAGGAACTGAGGAAGCAG  
 CTTGGCAGTGTATCCACAGGCTCCACACTGCAGCAGTCTCTGGAACCTACAAGAAAGATGCTTCGAGACA  
 AACAGAACAAAAAATTCAGGCCAGCCCCTCCCTGTCTTCCAGCATGGGTGTATGAGAGACCAACATT  
 GGCTGGAGATTTCTGATTGGCTCGGGCTTGAGCTCAGACACAGTTTTGCCTATAGGTACATTGCCCTTG  
 GCCTCCCAGGAGTCAGCTGTGGTGAAGATCTGCTCTATGTGCTTGTGGGTGTGGATGGCAGGTATATCA  
 CTGCTCAGCCTTTGGCTGGGAGGCAGAACCCTACCTTCCTTGTGACCCCAACCTGGACCTGTCCATCCG  
 GGAGCTAGTAAACAGAATCCTCCCTGTGGCCGCCAGCTACTCTACTGTGACCAGGTTCAATTGAGGAGAAG  
 TCTTCAATTTGAATATGGGCAGGTGAACCATGCCCTGGCTGCTGCCATGAGAACCCTAGTAAAGGAATACC  
 TGATTCTGGTCACACAGCTGGAACAGCTGCACAGGCAGGGCCTCCTCTCACTGCAGAAGCTCTGGTTCTA  
 CATCCAGCCAGCCATGCCACCATCGACATCCTTGCCCTCCCTGCCACCTCAGTGGATAAAGGCGAGTGT  
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 AGCTGTGCCTCTATCTGACCAAGGCAGCCAGTGCACCTTACTTCGAGACTCTGGAGAAGTCTATAG  
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 GAGGACTACAACGACAAGTACTGGGACCAGCGCTACACTGTGCTGCCGACGAGATCCCATCCTTCTCTGC  
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 GGTCCATCAAGCGCTACTTCTGATGGACCAGGGGACTTCTTCGTGCATTTTATGGACCTGACTGAGGA  
 GGAGCTCAGGAAGCCAGTGGAGGACATCACTCACACGCTGGAGGCCCTGTTGGAGCTGGCCCTGCCA  
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 CTAGCTTTTGGGGTTCTGGCCATCGAGACCAAGCAGGAAAAGCAATGACCCATGCTGACCCACCGGA  
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 AACAGGAAGGCACTACCCGCTACCAGATGCTCTTCCGACACATGTTCTACTGCAAGCACGTGGAGCGGC  
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 TGGTGTCTTCACTCTGCGGCAGCGAATGCTCAACTTTGTCCAGAATATTCAGTACTACATGATGTTTGA  
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 GCCACCACACAAGCTTCTTGACAAGTGCCTGAAGGACTGCATGCTGACCAACCTGAGCTGCTGAAGGT  
 TTTCTCCAAGCTCATGTCCGATGCGTCATGTTTACCAACTGTATGCAGAAATTTACACAGAGATGAAA  
 CTGGACAGTGAAGTGGCCGCTGACACTGGATCAGGGTGTGTGCAGGGGCCACCCACAGAGACTGAAC  
 GGATTGAGGATCGCCCCGGAAGGAGCTTACCAGGAAGCATCTGTCTGAGCATGTGGATGCTCCTCAGCT  
 GCCTCTGGTTTCGAGGCCACCATCAACAATTTGACAAAAACTTCTCTGCCATCTTCTTGATTTGCTG  
 GCCCGACTAAGTGTCTACAGCACCAGTACTGCGAACATGGCATGGCCAGTGTCTCCTCAGACTAGATT  
 TCAATGGTTTCTATGCTGAACGCTGGAACGTCTGTCTGCAGAAAGGAGTCAGAAGGCTGCCCCCAAGT  
 GCCTGTCCACGGGGACCCTCAGCACCAGCACCAGGGTGGCCATTCTGCGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231359 representing NM\_001286007  
 Red=Cloning site Green=Tags(s)

MSEFRIHHDVNEALLSLLRIHGGDGAEVYIDLLQKNRTPYVTTTSAHSAKVKIAEFSRTPEDFLKKYDEL  
 KSKNTRNLDPLVYLLSKLTEDKETLQFLQNAKERAELAASAATSNNTSF SIPVAASKMSTQELEELRKQ  
 LGSVSTGSTLQQSLELTRKMLRDKQNKNSGQPLPVFPWVYERPTLAGDFLIGSGLSSDVTLPIGTLPL  
 ASQESAVVEDLLVVLVGVDRYITAQPLAGRQNRFTFLVDPNLDLSIRELVNRILPVAASYSTVTRFIEEK  
 SSFEYGVNHALAAAMRTLVEKYLILVTQLEQLHRQGLLSLQKLWFIQPAMRTIDILASLATSVDKGEK  
 VGGSTLSLLHRSFNVTGDSQAQELCLYLTKAASAPYFEILEKWIYRGIHDPYSEFMVEHELKREKIQ  
 EDYNDKYWDQRYTVLPQQIPSFLQKVAGKILSTGKYLNVVRECGHDVTCVPAKEIIYTLKERAYVEQIEK  
 AFNYASKVLLDFLMEEKELVAHLRSIKRYFLMDQGDFVHFMDL TEEELRKPVEDIILTRLEALLELALR  
 MSTANTDPFKDDLKIELMPHDLITQLLRVLA IETKQEKAMTHADPTEL TSGLEAFSFDYMKWPLSLII  
 NRKALTRYQMLFRHMFYCKHVERQLCSVWISNKTAKQHALHSKWFAGAF TLRQRMLNFVQNIQYMMF  
 VMEPTWHILEKNLKSASNIDDLGHHTSFLDNCLKDCMLTNPPELLKVF SKLMSVCMFTNCMQKFTQSMK  
 LDSELGRLTLDQGSVQGPPTETETERIEDRPRKELTRKHLSEHVDAPQLASGF EATINNFDKNFSAHLLDLL  
 ARLSVYSTSDCEHGMA SVISRLDFNGFYAERLERLSAERSQKAAPQVPVPRGPSAPAPRVAIPAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

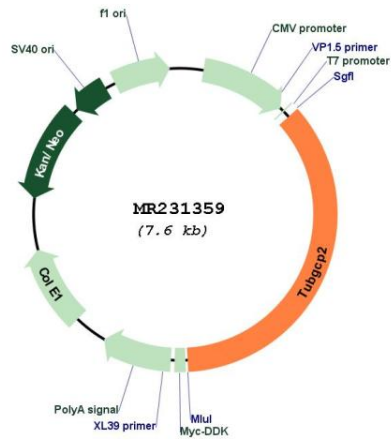
**Cloning Scheme:**



**ACCN:** NM\_001286007

<b>ORF Size:</b>	2715 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001286007.1</a> , <a href="#">NP_001272936.1</a>
<b>RefSeq Size:</b>	3158 bp
<b>RefSeq ORF:</b>	2718 bp
<b>Locus ID:</b>	74237
<b>UniProt ID:</b>	<a href="#">Q921G8</a>
<b>Cytogenetics:</b>	7 F4
<b>MW:</b>	103.2 kDa
<b>Gene Summary:</b>	Gamma-tubulin complex is necessary for microtubule nucleation at the centrosome. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231359