

Product datasheet for **MG209897**

Tubgcp4 (NM_153387) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubgcp4 (NM_153387) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubgcp4
Synonyms:	76p; 4932441P04Rik; D2Ert435e; GCP-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG209897 representing NM_153387
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTACGAACTGCTCTTGGCCCTGAGTGGGTACCCAGGGTCCATTTTCACCTGGAACAAGCGGAGTG
 GCCTGCAGGTTTCCAGGATTTTCCATTTCTTACCCCAGTGAGACTAGTGTCTGAATCGACTCTGCCG
 GCTTGGCACAGACTACATTTCGATTCACTGAGTTTATTGAACAGTATACAGGCCATGTGCAGCAACAGGAC
 CACCATCTCCCCAGCAGGGCCAAAGGGGACTGCATGGGATCTACCTGAGAGCCTTCTGCACAGGGCTGG
 ATTCAGTTTTGCAGCCGATCGCCAAGCACTGCTTGATTTGGAACAAGAGTTCTGGCTGACCCGCATCT
 CTCCATATCACATGTCAATTACTCCTTAGATCAGTTCAGCTCCTTTCCCTCTGTGATGGTTGTAGTG
 GAGCAAAATTAAGCCAAAAGATTCATGGCTGTCAAATCCTGGAACAGTTTACAAACATAGCTGTGGGG
 GCTTGCCTCCAGTCCGAAGCGCATTAGAAAAATCCTGGCTGTGTGCCATGGAGTCATGTATAAACAGCT
 CTCAGCCTGGATGCTGCATGGACTCCTTTGGATCAGCATGAAGAGTTCTTCATCAAACAGGGCCCATCT
 TCTGGTACTCTCAGTGCCGAGCTGGAAGAGGATGAGGAGGACCTGGGCATTGGAGGCCTGACAGGAAAAC
 AGCTGAGAGAAGTGCAGGACCTGCGCCTAATTGAGGAAGAGAATATGCTGGCCCCATCTCTGAAGCAGTT
 TTCGCTGAGGGTAGAGATTTTACCATCATACATTCAGTGAGAGTTGCTGAAAAATCCTCTTTGTTGGA
 GAATCTGTCCAAATGTTTGAGAAATCAAAATGTGAACCTGACAAGGAAAGGGTCCATCTTGAAAAACCAGG
 AGGACACATTCGCTGCCGAGCTGCACCGGCTCAAGCAGCAGCCACTCTTCAGCCTGGTGGATTTTGAGCA
 GGTGGTAGATCGGATTCGTAGCACTGTGGCTGAGCACCTCTGGAAGCTAATGGTGAAGAGTCAGATTTA
 CTGGGTCAGCTGAAGATCATTAAAGACTTTTACCTGCTGGGACGAGGAGAACTGTTCCAGGCCTTCATTG
 ACACAGCTCAGCACATGTTGAAAACACCACCCACTGCAGTAACAGAGCATGATGTGAATGTGGCCTTTCA
 ACAGTCAGCACACAAGGTGTTGCTAGATGACGACAACCTTCTCCCTCTGTTGCACCTGACGATTGAGTAT
 CATGGGAAGGACCACAAAGCAGATGCCACCCAGCCAAGAGAAGTGCCTTCTCGGGAGACATCCCCCGGG
 AAGCTCCTTCTTCGGCTGGGCTGCTCTAGGGCTTTCTACAAAGTACAGTGGCCACTGCACATTCTCTT
 CACCCAGCTGTCTTGAAAAAGTACAATGTTGTTTTAAGTACTTACTGAGTGTGCGCCGTGTCCAAGCT
 GAACTGCAGCACTGCTGGGCACTCCAGATGCAGCGCAACACCTCAAATCTAACCAGACGGACGCAGTCA
 AGTGGCGCCTAAGAAACCACATGGCCTTCTTGGTAGATAATCTTCAGTACTATCTCCAGGTAGATGTGCT
 GGAGTCTCAGTTCTCACAGCTGCTTCATCAGATCAATTCTACGAGGGACTTTGAAAGCATCCGATTGGCA
 CACGACCACTTCCTAAGCAATCTGCTGGCCAATCCTTTATTTTGTGAAGCCTGTGTTTCACTGCCTGA
 ATGAAATCCTAGATCTCTGTACAGTTTTTGTTCAGTGGTCAGTCAGAACCTAGGTCCACTGGATGAGCG
 CGGAGCGGCCAGCTGAGCATTCTCGTGAAGGGCTTTAGTCGCCAGTCTTCACTCCTGTTCAAGATTCTT
 TCCAGTGTTCGGAATCACCAGATCAACTCAGATTTGGCTCAGTTACTGCTCCGGCTAGACTATAATAAAT
 ACTATACCCAGGCTGGTGGGACTCTGGGCAGTTTTTGGGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209897 representing NM_153387
 Red=Cloning site Green=Tags(s)

MIHELLLALSGYPGSIFTWNKRSLQVSQDFPFLHPSETSVLNRLCRLGTDYIRFTEFIEQYTGHVQQD
 HHPPQQGGGLHGIYLRAFCTGLDSVLQPYRQALLDLEQEFADPHLSISHVNYSLDQFQLLFPSVMVV
 EQIKSQIHGCQILETVYKHSCGGLPPVRSALKILAVCHGVMYKQLSAWMLHGLLLDQHEEFFIKQGPS
 SGTLSAQLEDEEDLGIGGLTGKQLRELQDLRLIEEENMLAPSLKQFSLRVEILPSYIPVRVAEKILFVG
 ESVMFENQNVNLTTRKGSILKNQEDTFAAELHRLKQQPLFSLVDFEQVVDRIIRSTVAEHLWKLMEESDL
 LGQLKIIKDFYLLGRGELFQAFIDTAQHMLKTPPTAVTEHDVNVAFQSSAHKVLDDNLLPLLHLTIEY
 HGKDHKADATQPREVPSRETSPREAPSSGWAALGLSYKVQWPLHILFTPAVLEKYNVVFYLLSVRRVQA
 ELQHCWALQMQRKHLKSNQTDVAVKWLRLNHMAFLVDNLQYYLQVDVLESQFSQLLHQINSTRDFESIRLA
 HDHFLSNLLAQSFILLKPVFHLNEILDCHSFCSLVSQNLGPLDERGAAQLSILVKGFSRQSSLLFKIL
 SSVRNHQINSDLAQLLLRLDYNKYTTQAGGTLGSFGM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153387

ORF Size: 2001 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: [NM_153387.3](#), [NP_700436.1](#)

RefSeq Size: 2563 bp

RefSeq ORF: 2004 bp

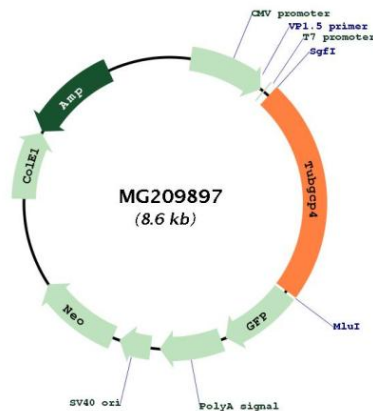
Locus ID: 51885

UniProt ID: [Q9D4F8](#)

Cytogenetics: 2 60.37 cM

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

Product images:



Circular map for MG209897