

## Product datasheet for **RG211175**

### **TUBA8 (NM\_018943) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TUBA8 (NM_018943) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBA8
Synonyms:	CDCBM8; TUBAL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211175 representing NM\_018943  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATCGGGGAATGCATATCAGTCCACGTGGGCCAAGCGGGAGTTCAGATTGGCAATGCCTGCTGGGAGCTCT  
 TCTGCCTGGAACACGGCATCCAGGCAGACGGCACTTTTGTGCTCAAGCTAGCAAGATCAACGATGATGA  
 CTCTTACCACCTTTTTCAGCGAGACTGGCAATGGGAAGCATGTGCCCCGGGCCGTCATGATAGATCTG  
 GAGCCTACTGTAGTGGATGAGGTTGGGCGAGAACCTACCGCCAGCTCTCCATCCAGAGCAGCTGATCA  
 CAGGAAAGGAGGATGCAGCCAACAATATGCCCGGGGCCACTACACGGTGGGCAAGGAGAGCATTGACCT  
 GGTGCTGGACGCATACGGAAGCTGACAGATGCTTGTCTGGCCTGCAGGGCTTCTGATTTCCACAGT  
 TTTGGTGGGGCACTGGCTCCGGCTTCACTTCTGCTGATGGAACGCCTCTCCCTGGATTATGGCAAGA  
 AATCCAAGCTGGAGTTTCCATCTACCCAGCCCCCAGGTCTCTACTGCAGTGGTGAGCCCTACAACCT  
 CATCCTGACCACCCACACCACTGGAACATTCAGATTGTCTTTCATGGTGGACAACGAAGCCATCTAT  
 GACATCTGCCGAGGAACCTTGACATTGAGCGCCCTACCTATACCAACCTCAACCGCCTCATCAGTCAGA  
 TTGTGTCCTCAATCACTGCTTCTCTCCGCTTTGACGGGGCCCTCAATGTGGACCTCACTGAGTTCAGAC  
 CAACCTGGTGCCCTACCCCCGCATCCACTTCCCCTGGTACCTACGCGCCCATCATCTCTGCCGAGAAA  
 GCCTATCACGAACAGCTCTCTGTGGCCGAGATAACCAGCTCCTGCTTTGAGCCCAACAGCCAGATGGTGA  
 AGTGCGACCCGAGACATGGCAAGTACATGGCCTGCTGCATGCTCTACCGGGGCGACGTGGTGCCCAAGGA  
 TGTGAATGTCGCTATTGCTGCCATCAAGACCAAGAGGACCATCCAGTTTGTAGACTGGTGTCCCACAGGC  
 TTCAAGTGGGCATCACTACCAGCCCCGACCGTGGTCCCCGGGGAGACCTGGCCAAGGTGCAGCGGG  
 CCGTCTGCATGCTCAGCAACACCACGGCATTGCGGAGGCCTGGGCCCGCCTCGACCAAGTTCGACCT  
 CATGTACGCCAAGCGGGCCTTTGTGATTGGTATGTGGGAGAGGGGATGGAAGAAGGAGAATTTTCTGAG  
 GCCAGGGAAGACTTAGCTGCCCTGGAGAAGGATTATGAAGAAGTGGGACTGATTCTTTGAAGAAGAAA  
 ATGAAGGGGAGGAATTT

**ACCGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211175 representing NM\_018943  
 Red=Cloning site Green=Tags(s)

MRECISVHVQAGVQIGNACWELFCLEHGIQADGTFDAQASKINDDSFTTFFSETGNGKHVPRAYMIDL  
 EPTVVDEVRAQTYRQLFHPEQLITGKEDAANNYARGHYTVGKESIDLVLDRIRKLTACSGLQGFIFHS  
 FGGGTGSGFTSLLMERLSLDYGGKSKLEFAIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIY  
 DICRRNLDIRPTYTNLNRLLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIFPLVTYAPIISAEK  
 AYHEQLSVAEITSSCFEPNSQMVKCDPRHGKYMCCMLYRGDVVPKDVNVAIAAIKTKRTIQFVDWCPTG  
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNNTTAIAEAWARLDHKFDLMAKRAFVHWYVGEEMEEGEFSE  
 AREDLAALAEKDYEEVGTDSFEEENEGEFF

**TR**TRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_018943

**ORF Size:** 1347 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.

**RefSeq:** [NM\\_018943.3](#)

**RefSeq Size:** 2018 bp

**RefSeq ORF:** 1350 bp

**Locus ID:** 51807

**UniProt ID:** [Q9NY65](#)

**Cytogenetics:** 22q11.21

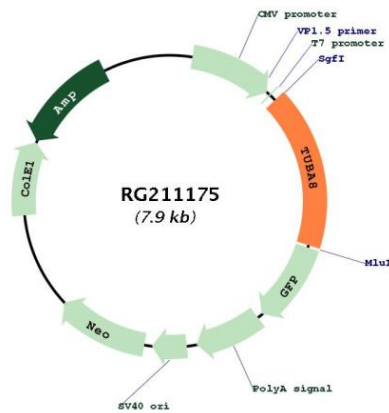
**Domains:** tubulin

**Protein Families:** Druggable Genome

**Protein Pathways:** Gap junction, Pathogenic Escherichia coli infection

**Gene Summary:** This gene encodes a member of the alpha tubulin protein family. Alpha tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. Mutations in this gene are associated with polymicrogyria and optic nerve hypoplasia. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]

**Product images:**



Circular map for RG211175