

## Product datasheet for **RG205881**

### beta II Tubulin (TUBB2A) (NM\_001069) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta II Tubulin (TUBB2A) (NM_001069) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	beta II Tubulin
Synonyms:	CDCBM5; TUBB; TUBB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205881 representing NM\_001069  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGCGAGATCGTGCACATCCAGGCGGGCCAGTGCGCCAACAGATCGGCGCCAAGTTTTGGGAGGTCA  
 TCAGCGATGAGCATGGGATCGACCCACAGGCAGTTACCATGGAGACAGTGACTTGCAGCTGGAGAGAAT  
 CAACGTGTACTACAATGAGGCTGCTGGTAAACAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCT  
 GGCACCATGGACTCTGTGAGGTCTGGACCTTCGGCCAGATCTTCAGACCAGACAACCTCGTGTTCGGCC  
 AGAGTGGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAGCTGGTTCGACTCGGTCT  
 GGATGTGGTGAGGAAGGAGTCAAGAGCTGTGACTGTCTCCAGGGCTTCAGCTGACCCACTCTCTGGGG  
 GCGGCCACGGGGTCCGGGATGGCACCCCTGCTCATCAGCAAGATCCGGGAAGGTACCCAGACCCGCATCA  
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACCT  
 CTCTGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTCCATTGATAACGAGGCCCTGTATGACATC  
 TGCTTCCGCACCCCTGAAGCTGACCACCCCCACCTACGGGGACCTCAACCCTGGTGTCCGCCACCATGA  
 GCGGGGTCAACACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACAT  
 GGTGCCCTTCCCTGCGCTGCACTTCTTCATGCCCGGCTTCGCGCCCTGACCAGCCGGGGCAGCCAGCAG  
 TACCGGGCGCTCACGGTGCCTGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCG  
 ACCCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTCCGGGGCCGCATGTCATGAAGGAGGTGGA  
 CGAGCAGATGCTCAACGTGCAGAACAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAG  
 ACGGCCGTGTGCGACATCCCGCCCCGCGGCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCA  
 TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCCTCTGCACTG  
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCC  
 GAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGGAGTTCGAGGAGGAGGGGCGAGGACG  
 AGGCT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG205881 representing NM\_001069  
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYYNEAAGNKYVPRAILVDLEP  
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG  
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSDDTVEPYNATLSVHQLVENTDETYSIDNEALYDI  
 CFRTLKLTTPTYGDLNHLVLSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVPELTQQMFDKSNMMAACDPRHGRYLTVAAIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK  
 TAVCDIIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATADEQGEFEFEFEDEA

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001069

**ORF Size:** 1335 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\\_001069.3](#)

**RefSeq Size:** 1621 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 7280

**UniProt ID:** [Q13885](#)

**Cytogenetics:** 6p25.2

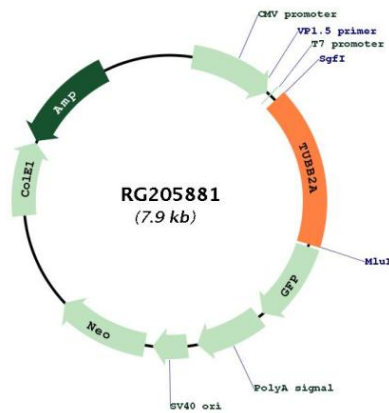
**Domains:** tubulin

**Protein Families:** Druggable Genome

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

**Gene Summary:** Microtubules, key participants in processes such as mitosis and intracellular transport, are composed of heterodimers of alpha- and beta-tubulins. The protein encoded by this gene is a beta-tubulin. Defects in this gene are associated with complex cortical dysplasia with other brain malformations-5. Two transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

**Product images:**



Circular map for RG205881