

## Product datasheet for **RG209075**

### **TUBB2B (NM\_178012) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TUBB2B (NM_178012) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBB2B
Synonyms:	bA506K6.1; CDCBM7; PMGYSA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209075 representing NM\_178012  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGTGAGATCGTGCACATCCAGGCGGGCCAGTGCGCCAACAGATCGGCGCCAAGTTTTGGGAGGTCA  
 TCAGTGATGAGCATGGGATTGACCCCACTGGCAGTTACCATGGAGACAGTGATTTGCAGCTGGAGAGAAT  
 CAATGTTTACTACAATGAAGCCACTGGTAACAAATATGTTCTCGGGCCATCCTCGTGGATCTGGAGCCA  
 GGCACGATGGATTCGGTTAGGTCTGGACCATTGGCCAGATCTTCAGACCAGACAATTTCTGTTTTGGCC  
 AGAGTGGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAGCTGGTCGACTCGGTCTT  
 GGATGTGGTGAGGAAGGAGTCAAGAGCTGTGACTGTCTCCAGGGCTTCCAGCTGACCCACTCTCTGGGG  
 GCGGGCACGGGGTCCGGGATGGCACCCCTGCTCATCAGCAAGATCCGGGAAGGTACCCAGACCCGATCA  
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACCT  
 CTGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTGCATTGACAACGAGGCCCTGTATGACATC  
 TGCTTCCGCACCCTGAAGCTGACCACCCCACTACGGGGACCTCAACCCTGGTGTCCGGCCACCATGA  
 GCGGGGTACCCACTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACAT  
 GGTGCCCTTCCCTCGCTGCACTTCTTCATGCCCGGCTTCGCGCCCTGACCAGCCGGGGCAGCCAGCAG  
 TACCGGGCGCTCACGGTGCCTGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCG  
 ACCCGCGCCACGGCCGCTACCTGACGGTGGTGCATCTTCCGGGGCCGATGTCATGAAGGAGGTGGA  
 CGAGCAGATGCTCAACGTGCAGAACAAGAAGCAGCAGTACTTCGTGGAGTGGATCCCCAACACGTGAAG  
 ACGGCCGTGTGCGACATCCCGCCCGCGGCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCA  
 TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCCTCTGCACTG  
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCC  
 GAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGGAGTTCGAGGAGGAGGGCGAGGACG  
 AGGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209075 representing NM\_178012  
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYYNEATGNKYVPRAILVDLEP  
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG  
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDI  
 CFRTLKLTTPTYGDLNHLVLSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVPELTQQMFDKSNMMAACDPRHGRYLTVAAIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK  
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATADEQGEFEFEFEDEA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_178012

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_178012.5](#)

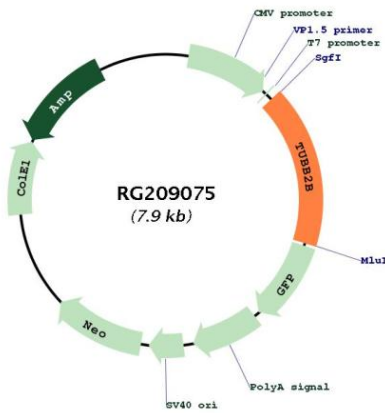
**RefSeq Size:** 1914 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 347733

**UniProt ID:** [Q9BVA1](#)  
**Cytogenetics:** 6p25.2  
**Protein Families:** Druggable Genome  
**Protein Pathways:** Gap junction, Pathogenic Escherichia coli infection  
**Gene Summary:** The protein encoded by this gene is a beta isoform of tubulin, which binds GTP and is a major component of microtubules. This gene is highly similar to TUBB2A and TUBB2C. Defects in this gene are a cause of asymmetric polymicrogyria. [provided by RefSeq, Mar 2010]

**Product images:**



Circular map for RG209075