

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
 GGCACGATGGATTCGGTTAGGTCTGGACCATTGGCCAGATCTTCAGACCAGACAATTCGTGTTTGGCC
 AGAGTGGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAGCTGGTCGACTCGGTCTT
 GGATGTGGTGAGGAAGGAGTCAAGAGCTGTGACTGTCTCCAGGGCTTCCAGCTGACCCACTCTCTGGGG
 GCGGGCACGGGGTCCGGGATGGCACCCCTGCTCATCAGCAAGATCCGGGAAGGTACCCAGACCCGATCA
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACCT
 CTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTGCATTGACAACGAGGCCCTGTATGACATC
 TGCTTCCGCACCCTGAAGCTGACCACCCCACTACGGGGACCTCAACCCTGGTGTCCGCCACCATGA
 GCGGGGTACCCACTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACAT
 GGTGCCCTTCCCTCGCTGCACTTCTTCATGCCCGGCTTCGCGCCCTGACCAGCCGGGGCAGCCAGCAG
 TACCGGGCGCTCACGGTGCCTGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCG
 ACCCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTCCGGGGCCGATGTCATGAAGGAGGTGGA
 CGAGCAGATGCTCAACGTGCAGAACAAGAAGCAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAG
 ACGGCCGTGTGCGACATCCCGCCCGCGGCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCA
 TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCCTCTGCACTG
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTTACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCC
 GAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGGAGTTCGAGGAGGAGGGCGAGGACG
 AGGCG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209075 representing NM_178012
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYYNEATGNKYVPRAILVDLEP
 GTMDSVRSRGGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSdTVEPYNATLSVHQLVENTDETYCIDNEALYDI
 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.

RefSeq: [NM_178012.5](#)

RefSeq Size: 1914 bp

RefSeq ORF: 1338 bp

Locus ID: 347733

UniProt ID: [Q9BVA1](#)

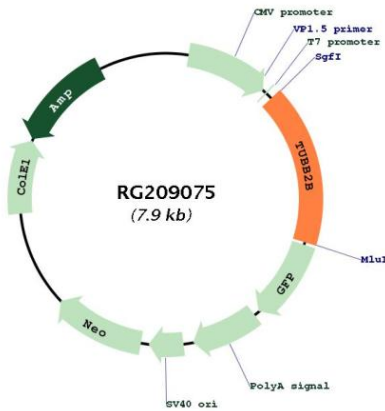
Cytogenetics: 6p25.2

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