

Product datasheet for **RG205008**

Tubulin (TUBA1B) (NM_006082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tubulin (TUBA1B) (NM_006082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tubulin
Synonyms:	K-ALPHA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205008 representing NM_006082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTTCAGATTGGCAATGCCTGCTGGGAGCTCT
 ACTGCCTGGAACACGGCATCCAGCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGA
 CTCTTCAACACCTTCTTCACTGAGACGGGCGCTGGCAAGCACGTGCCCGGGCTGTGTTGTAGACTTG
 GAACCCACAGTCATTGATGAAGTTCGACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCA
 CAGGCAAGGAAGATGCTGCCAATAACTATGCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCT
 TGTGTTGGACCGAATTCGCAAGCTGGCTGACCAGTGCACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGC
 TTTGGTGGGGAACTGGTCTGGGTTACCTCCCTGCTCATGGAACGTCTCTCAGTTGATTATGGCAAGA
 AATCCAAGCTGGAGTTCTCCATTACCCGGCACCCAGGTTCCACAGCTGTAGTTGAGCCCTACAACCT
 CATCTCACCCACACCACCCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTAT
 GACATCTGTCGTAGAAACCTCGATATCGAGCGCCAACCTACACTAACCTTAACCGCCTTATTAGCCAGA
 TTGTGTCCTCCATCACTGCTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTGACAGAATCCAGAC
 CAACCTGGTGCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCTGTCATCTCTGCTGAGAAA
 GCCTACCATGAACAGCTTCTGTAGCAGAGATCAACATGCTTGTGCTTGGAGCCAGCAACCATGAGTGA
 AATGTGACCCCTCGCCATGGTAAATACATGGCTTGTGCTGCTGTTGTACCGTGGTACGTTGTTCCAAAGA
 TGTCAATGCTGCCATTGCCACCATCAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGGCCCACTGGC
 TTCAAGTTGGCATCACTACCAGCCTCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAG
 CTGTGTGCATGCTGAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTGACCT
 GATGTATGCCAAGCGTGCCTTTGTTCACTGGTAGGTGGTGGAGGGATGGAGGAAGGCGAGTTTTACAGAG
 GCCCGTGAAGATATGGCTGCCCTTGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGG
 GTGAGGAAGAAGGAGAGGAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205008 representing NM_006082
 Red=Cloning site Green=Tags(s)

MRECISIHVQAGVQIGNACWEL YCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDL
 EPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHS
 FGGGTGSGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIY
 DICRRNLDIRPTYTNLNRLLISQIVSSITASLRFDGALNVDL TEFQTNLVPYPRIFPLATYAPVISA
 AYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRSIQFVDWCPTG
 FKVGINYQPPTVVPGGDLAKVQRAVCMLSNNTTAIAEAWARLDHKFDL MYAKRAFVHWYVGEEMEEGEFSE
 AREDMAALEKDYEEVGVDSVEGEGEEEGEEY

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006082

ORF Size: 1353 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_006082.2](#), [NP_006073.2](#)

RefSeq Size: 1771 bp

RefSeq ORF: 1356 bp

Locus ID: 10376

UniProt ID: [P68363](#)

Cytogenetics: 12q13.12

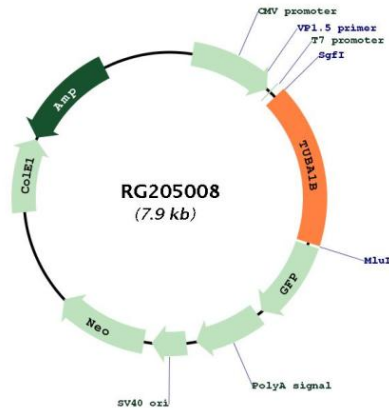
Domains: tubulin

Protein Families: Druggable Genome

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

Gene Summary: Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205008