

Product datasheet for **RG211127**

gamma Tubulin (TUBG2) (NM_016437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	gamma Tubulin (TUBG2) (NM_016437) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	gamma Tubulin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211127 representing NM_016437 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGGGAGATCATCACCTGCAGCTGGGCCAGTGC GGCAACCAGATTGGGTTTCGAGTTCTGGAAC
AGCTGTGCGCCGAGCATGGTATCAGCCCCGAGGGCATCGTGGAGGAATTCGCCACCGAGGGCACTGACCG
CAAGGACGTCTTTTTCTACCAGGCAGACGATGAGCACTACATCCCCGGGCGCTGCTGTGGACTTGGAA
CCCCGGGTGATCCACTCCATCCTCAACTCCCCCTATGCCAAGCTCTACAACCCAGAGAACATCTACCTGT
CGGAACATGGAGGAGGAGCTGGCAACAACCTGGCCAGCGGATTCGCCAGGGTGGAGAAAATTCATGAAGA
CATCTTTGACATCATAGACCGAGAAGCAGATGGAAGTGACAGTTTGGAGGGCTTCGTGTGTCTACTCC
ATCGCTGGGGGTACGGTTCTGGCCTGGCTCCTACCTCCTGGAGCGACTGAATGACAGGTACCCCAAGA
AGCTAGTGCAGACTTATTCAGTGTTCCTACCAGGACGAGATGAGCGACGTAGTGGTTCAGCCCTACAA
TTCACTCCTGACACTCAAGAGGCTGACGCAGAACGCAGATTGTGTGGTGGTGTGGACAACACAGCCCTG
AACCGGATTGCCACAGACCGCTGCACATCCAGAACCCGCTCCTTCTCCAGATCAACCAGCTGGTGTCCA
CCATCATGTGCGCCAGCACCACCACCTGCGCTACCCCGCTACATGAACAATGACCTCATCGGCCCTCAT
CGCCTCGCTCATCCACCCACGGCTCCACTTCTCATGACCGCTACACCCGCTCACTACAGACCAG
TCAGTGGCCAGCGTGAGGAAGACCAGGTCCTGGATGTGATGAGGCGGCTGCTGCAGCCCAAGAAGTGA
TGGTGTCCACAGGCCGAGACCGCCAGCAACCACTGCTACATCGCCATCCTCAACATCATCCAGGGAGA
GGTGGACCCACCCAGGTCACAAAGAGCCTGCAGAGGATCCGGGAACGGAAGTTGGCCAACCTTCATCCCG
TGGGGCCCCGCCAGCATCCAGGTGGCCCTGTGCGAGGAAGTCTCCCTACCTGCCCTCGGCCACCGGGTCA
GCGGGCTCATGATGGCCAACCACACAGCATCTCCTCGCTCTTTGAAAGTTCTGCCAGCAGTTTGACAA
GCTGCGGAAGCGGGATGCCTTCTCGAGCAGTTCCGTAAGGAGGACATGTTCAAGGACAACCTTGATGAG
ATGGACAGGTCTAGGGAGGTTGTTTCAGGAGCTCATTGATGAGTACCATGCGGCCACCCAGCCAGACTACA
TTTCTGGGGCACCCAGGAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

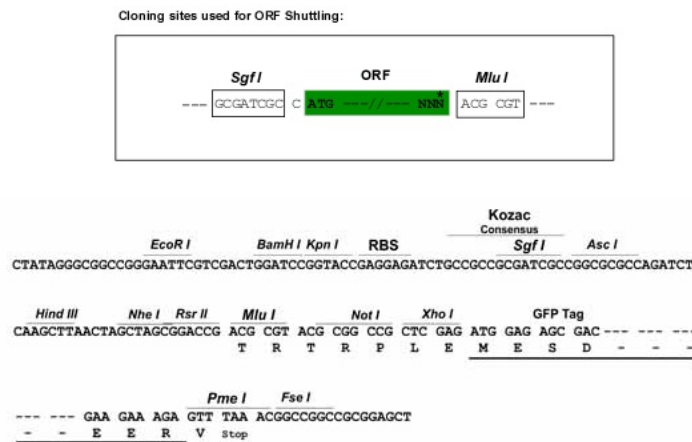
Protein Sequence: >RG211127 representing NM_016437
Red=Cloning site Green=Tags(s)

MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTRKDVFFYQADDEHYIPRAVLDDLE
 PRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIHEDIFDIIDREADGSDSLEGFVLCNS
 IAGGTGSLGSLYLLERLNDRYPKLVQTYSVFPYQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTAL
 NRIATDRLHIQNPSFSQINQLVSTIMSATTTTLRYPGYMNDLIGLIASLIPTPRLHFLMTGYTPLTTDQ
 SVASVRKTTVLDVMRRLQLQPKVMVSTGRDRQTNHCYIAILNIIQGEVDPQVHKSLQRIRERKLANFIP
 WGPASIQVALSRKSPYLPASHRVSGLMANHTSISLFESSCQQFDKLRKRDFALEQFRKEDMFKDNFDE
 MDRSREVVQELIDEYHAATQPDYISWGTQEQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016437

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_016437.3](#)

RefSeq Size: 1830 bp

RefSeq ORF: 1356 bp

Locus ID: 27175

UniProt ID: [Q9NRH3](#)

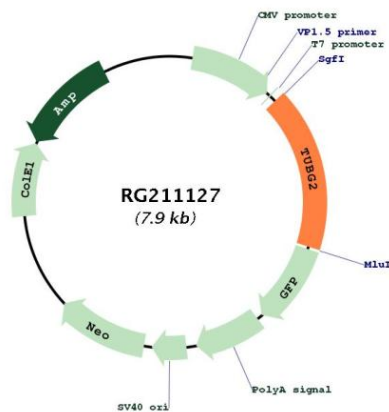
Cytogenetics: 17q21.2

Domains: tubulin

Protein Families: Druggable Genome

Gene Summary: Tubulin is the major constituent of microtubules. The gamma chain is found at microtubule organizing centers (MTOC) such as the spindle poles or the centrosome. Pericentriolar matrix component that regulates alpha/beta chain minus-end nucleation, centrosome duplication and spindle formation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211127