

Product datasheet for **RG200755**

beta III Tubulin (TUBB3) (NM_006086) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | beta III Tubulin (TUBB3) (NM_006086) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | beta III Tubulin |
| Synonyms: | beta-4; CDCBM; CDCBM1; CFEOM3; CFEOM3A; FEOM3; TUBB4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG200755 representing NM_006086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGAGATCGTGCACATCCAGGCCGGCCAGTGCGCCAACAGATCGGGGCCAAGTTCTGGGAAGTCA
 TCAGTGATGAGCATGGCATCGACCCAGCGGCAACTACGTGGGCGACTCGGACTTGCAGCTGGAGCGGAT
 CAGCGTCTACTACAACGAGGCCTCTTCTACAAGTACGTGCCTCGAGCCATTCTGGTGGACCTGGAACCC
 GGAACCATGGACAGTGTCCGCTCAGGGGCTTTGGACATCTTTCAGGCCTGACAATTTTCATCTTTGGTC
 AGAGTGGGGCCGCAACAACCTGGGCCAAGGGTCACTACACGGAGGGGGCGGAGCTGGTGGATTCCGTCT
 GGATGTGGTGGGAAGGAGTGTGAAAACGCGACTGCCTGCAGGGCTTCCAGCTGACCCACTCGTGGGG
 GGGCCACGGGCTCCGGCATGGCACGTTGCTCATCAGCAAGGTGCGTGAGGAGTATCCCGACCCGATCA
 TGAACACCTTCAGCGTCGTGCCCTCACCAAGGTGTCAGACACGGTGGTGGAGCCCTACAACGCCACGCT
 GTCATCCACCAGCTGGTGGAGAACACGGATGAGACCTACTGCATCGACAACGAGGCGCTCTACGACATC
 TGCTTCCGCACCCTCAAGCTGGCCACGCCACCTACGGGGACCTCAACCCTGGTATCGGCCACCATGA
 GCGGAGTCAACACCTCCTTGCCTTCCCGGCCAGCTCAACGCTGACCTGCGCAAGCTGGCCGCTCAACAT
 GGTGCCCTTCCCGCCCTGCACTTCTTCATGCCCGGCTTCGCCCCCTCACAGCCCGGGGACCCAGCAG
 TACCGGGCCCTGACCGTGCCTGAGCTCACCCAGCAGATGTTTCGATGCCAAGAACATGATGGCCGCTGCG
 ACCCGCCGACGGCCGCTACCTGACGGTGGCCACCGTGTTCGGGGCCGATGTCATGAAGGAGGTGGA
 CGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAG
 GTGGCCGTGTGTGACATCCCGCCCCGCGCCTCAAGATGTCCTCCACCTTCATCGGGAACAGCACGGCCA
 TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCCGCAAGGCCTTCTGCCTG
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCC
 GAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGACGAGGAGGAGT
 CGGAGGCCAGGGCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200755 representing NM_006086
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPSGNYVGDSLQLERISVYYNEASSHKYVPRAILVDLEP
 GTMDSVRSAGFGHLFRPDNFIQSGAGNNWAKGHYTEGAELVDSVLDVVRKECENCDCQLQGFQLTHSLG
 GGTGSGMGTLLISKVREEYPDRIMNTFSVVPSPKVSdTVEPYNATLSIHQLVENTDETYCIDNEALYDI
 CFRTLKLATPTYGDLNHLVSATMSGVTTSLRFPQGLNADLRKLAVNMPFPRLHFFMPGFAPLTARGSQQ
 YRALTVPELTQQMFDANKMMAACDPRHGRYLTVATVFRGRMSMKEVDEQMLAIQSKNSSYFVEWIPNNVK
 VAVCDIPRGLKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATAEEEGEMYEDDEESEAQGPK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006086

ORF Size: 1350 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_006086.4](#)

RefSeq Size: 1736 bp

RefSeq ORF: 1353 bp

Locus ID: 10381

UniProt ID: [Q13509](#)

Cytogenetics: 16q24.3

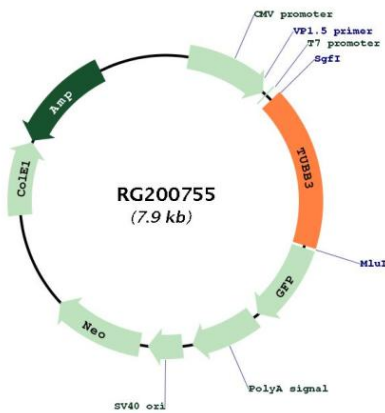
Domains: tubulin

Protein Families: Druggable Genome, ES Cell Differentiation/IPS

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

Gene Summary: This gene encodes a class III member of the beta tubulin protein family. Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Mutations in this gene are the cause of congenital fibrosis of the extraocular muscles type 3. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RG200755