

Product datasheet for **RC205881**

beta II Tubulin (TUBB2A) (NM_001069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta II Tubulin (TUBB2A) (NM_001069) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	beta II Tubulin
Synonyms:	CDCBM5; TUBB; TUBB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC205881 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCGAGATCGTGCACATCCAGGCGGGCCAGTGCGCCAACAGATCGGCGCCAAGTTTTGGGAGGTCA
 TCAGCGATGAGCATGGGATCGACCCACAGGCAGTTACCATGGAGACAGTGACTTGCAGCTGGAGAGAAT
 CAACGTGTACTACAATGAGGCTGCTGGTAAACAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCT
 GGCACCATGGACTCTGTGAGGTCTGGACCTTCGGCCAGATCTTCAGACCAGACAACCTCGTGTTCGGCC
 AGAGTGGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAGCTGGTCTGACTCGGTCT
 GGATGTGGTGAAGGAGTCAAGAGCTGTGACTGTCTCCAGGGCTTCAGCTGACCCACTCTCTGGGG
 GCGGCCACGGGGTCCGGGATGGCACCCCTGCTCATCAGCAAGTCCGGGAAGGTACCCAGACCCGCATCA
 TGAACACCTTCAGCGTCATGCCCTCACCAAGGTGTGAGACCGTGGTGGAGCCCTACAACGCCACCT
 CTCTGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTCCATTGATAACGAGGCCCTGTATGACATC
 TGCTTCCGCACCCTGAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTGTGGCCACCATGA
 GCGGGGTACCCACTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACAT
 GGTGCCCTTCCCTGCGCTGCACTTCTTCATGCCCGGCTTCGCGCCCTGACCAGCCGGGGCAGCCAGCAG
 TACCGGGCGCTCACGGTGCCTGAGCTCACCCAGCAGATGTTGACTCCAAGAACATGATGGCCGCTGCG
 ACCCGCGCCACGGCCGCTACCTGACGGTGGTGCATCTTCCGGGGCCGATGTCATGAAGGAGGTGGA
 CGAGCAGATGCTCAACGTGCAGAACAAGAAGCAGCAGTACTTCGTGGAGTGGATCCCCAACACGTGAAG
 ACGGCCGTGTGCGACATCCCGCCCCGCGCCTGAAGATGTGCGCCACCTTCATCGGCAACAGCACGGCCA
 TCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCAGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTG
 GTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCC
 GAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGGAGTTCGAGGAGGAGGGGCGAGGACG
 AGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205881 protein sequence
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCNGQIGAKFWEVISDEHGIDPTGSYHGDSLQLERINVYNEAAGNKYVPRAILVDLEP
 GTMDSVRSRPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLG
 GGTGSGMGTLLISKIREEYPDRIMNTFSVMPSPKVSdTVEPYNATLSVHQLVENTDETYSIDNEALYDI
 CFRTLKLTPTTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLA VNMVFPRLHFFMPGFAPLTSRGSQQ
 YRALTVPELTQQMFD SKNMMAACDPRHG RYLTVAAIFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVK
 TAVCDIPRGLKMSATFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVS
 EYQYQDATADEQGEFEFEDEGEDEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6433_a06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001069

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_001069.3](#)

RefSeq Size: 1621 bp

RefSeq ORF: 1338 bp

Locus ID: 7280

UniProt ID: [Q13885](#)

Cytogenetics: 6p25.2

Domains: tubulin

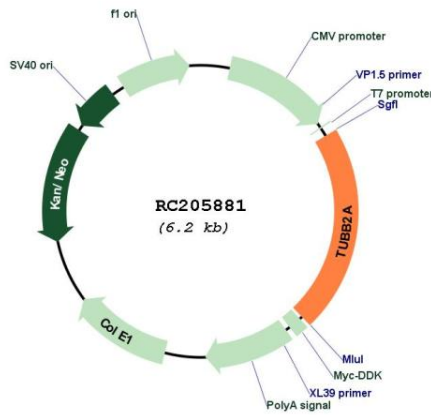
Protein Families: Druggable Genome

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

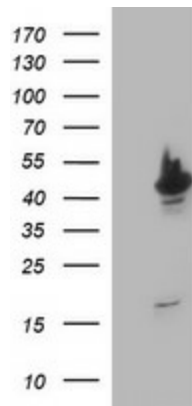
MW: 49.9 kDa

Gene Summary: Microtubules, key participants in processes such as mitosis and intracellular transport, are composed of heterodimers of alpha- and beta-tubulins. The protein encoded by this gene is a beta-tubulin. Defects in this gene are associated with complex cortical dysplasia with other brain malformations-5. Two transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2015]

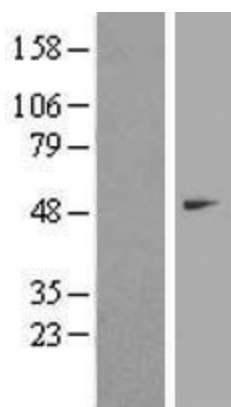
Product images:



Circular map for RC205881



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TUBB2A (Cat# RC205881, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TUBB2A (Cat# [TA506590]). Positive lysates [LY420706] (100ug) and [LC420706] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY420706]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205881 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).