

## Product datasheet for **RC203629**

### beta V Tubulin (TUBB) (NM\_178014) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta V Tubulin (TUBB) (NM_178014) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TUBB
Synonyms:	CDCBM6; CSCSC1; M40; OK/SW-cl.56; TUBB1; TUBB5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC203629 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGAAATCGTGCACATCCAGGCTGGTGTGCAACAGATCGGTGCCAAGTCTGGGAGGTGA  
 TCAGTGATGAACATGGCATCGACCCACCGGCACCTACCACGGGACAGCGACCTGCAGCTGGACGCAT  
 CTCTGTGTACTACAATGAAGCCACAGGTGGCAAATATGTTCTCGTGCCATCCTGGTGGATCTAGAACC  
 GGGACCATGGACTCTGTTGCTCAGGTCCTTTGGCCAGATCTTTAGACCAGACAACCTTTGTATTTGGT  
 AGTCTGGGCGAGGTAACAACGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCT  
 GGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTCCAGCTGACCCACTCACTGGGC  
 GGGGGCACAGGCTCTGGAATGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCCTGATCGCATCA  
 TGAATACCTTCAGTGTGGTGCCTTACCCTAAAGTGTCTGACACCGTGGTGCAGCCCTACAATGCCACCT  
 CTCGGTCCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATC  
 TGCTTCCGCACTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACATGA  
 GTGGTGTACCACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACAT  
 GGTCCCCTTCCCAGTCTCCATTTCTTTATGCCTGGCTTTGCCCTCTCACCCAGCCGTGGAAGCCAGCAG  
 TATCGAGCTCTCAGAGTCCGGAACCTACCCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCCTGTG  
 ACCCCCGCCACGGCCGATACCTCACCGTGGCTGTCTTCCGTTGGTGGATGTCCATGAAGGAGGTGGA  
 TGAGCAGATGCTTAACGTGCAGAACAAGAAGCAGCAGCTACTTTGTGGAATGGATCCCCAACAAATGTCAAG  
 ACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACTTCAATTGGCAATAGCACAGCCA  
 TCCAGGAGCTCTCAAGCGCATCTCGGAGCAGTCACTGCCATGTTCCGCCGAAGGCCCTCCTCCACTG  
 GTACACAGGCGAGGGCATGGACGAGATGGAGTTTACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCT  
 GAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGGTGGAGGAGCCGAAGAGGAGG  
 CC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203629 protein sequence  
 Red=Cloning site Green=Tags(s)

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRISVYYNEATGGKYVPRAILVDLEP  
 GTMDSVRSQPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESDCLQGFQLTHSLG  
 GGTGSGMGTLLISKIREEYPDRIMNTFSVVPSPKVSQTVVEPYNATLSVHQLVENTDETYCIDNEALYDI  
 CFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLAVNMPVFPRLHFFMPGFAPLTSRGSQQ  
 YRALTVPELTQQVFDKNNMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVK  
 TAVCDIPRGLKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLLHWYTGEGMDEMEFTEAESNMNDLVS  
 EYQYQDATAEEEEEDFGEEAEEEE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6155\\_a07.zip](https://cdn.origene.com/chromatograms/mk6155_a07.zip)

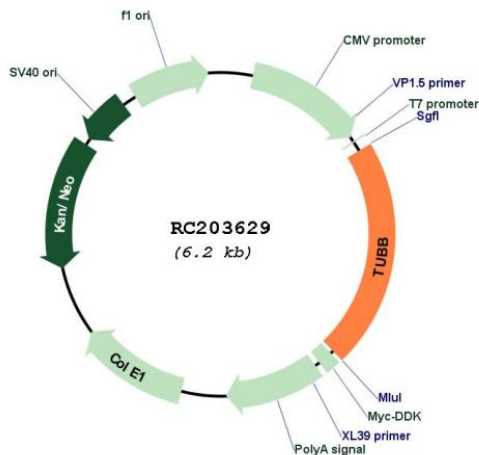
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_178014

ORF Size: 1332 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\\_178014.4](#)

**RefSeq Size:** 2688 bp

**RefSeq ORF:** 1335 bp

**Locus ID:** 203068

**UniProt ID:** [P07437](#)

**Cytogenetics:** 6p21.33

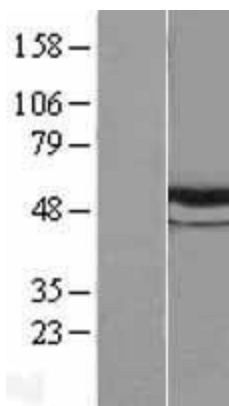
**Protein Families:** Druggable Genome

**Protein Pathways:** Gap junction, Pathogenic Escherichia coli infection

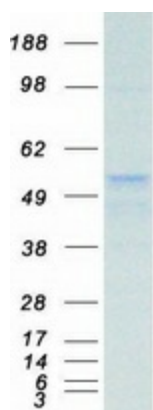
**MW:** 49.7 kDa

**Gene Summary:** This gene encodes a beta tubulin protein. This protein forms a dimer with alpha tubulin and acts as a structural component of microtubules. Mutations in this gene cause cortical dysplasia, complex, with other brain malformations 6. Alternative splicing results in multiple splice variants. There are multiple pseudogenes for this gene on chromosomes 1, 6, 7, 8, 9, and 13. [provided by RefSeq, Jun 2014]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY403597]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203629 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TUBB protein (Cat# [TP303629]). The protein was produced from HEK293T cells transfected with TUBB cDNA clone (Cat# RC203629) using MegaTran 2.0 (Cat# [TT210002]).