

## Product datasheet for **RC237800**

### beta V Tubulin (TUBB) (NM\_001293216) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta V Tubulin (TUBB) (NM_001293216) 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
ORF Nucleotide Sequence:	>RC237800 representing NM_001293216 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGACTCTGTTTCGCTCAGGTCCTTTGGCCAGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTG  
GGGCAGGTAACAACCTGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCTGGATGT  
GGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTCCAGCTGACCCACTCACTGGCGGGGGC  
ACAGGCTCTGGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCTGATCGCATCATGAATA  
CCTTCAGTGTGGTGCCTTACCCAAAGTGTCTGACACCGTGGTTCGAGCCCTACAATGCCACCTCTCCGT  
CCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATCTGCTTC  
CGCACTCTGAAGCTGACCACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATGAGTGGTG  
TCACCACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTCCC  
CTTCCCACGTCTCATTCTTTATGCCTGGCTTTGCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGA  
GCTCTCACAGTGCCGGAACCTACCCAGCAGGCTTCGATGCCAAGAACATGATGGTGCCTGTGACCCCC  
GCCACGGCCGATACCTCACCGTGGTGTCTTCCGTGGTCCGATGCCATGAAGGAGGTCGATGAGCA  
GATGCTTAACGTGAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCAACAATGTCAAGACAGCC  
GTCTGTGACATCCACCTCGTGGCTCAAGATGGCAGTCACTTCATTGGCAATAGCACAGCCATCCAGG  
AGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCGAAGGCCCTTCTCCACTGGTACAC  
AGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAACGACCTCGTCTGAGTAT  
CAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGATTTCCGGTGAAGGAGGCCAAGAGGAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237800 representing NM\_001293216  
Red=Cloning site Green=Tags(s)

MDSVRSQPFQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGG  
 TGSGMGTLISKIREEYPDRIMNTFSVVPSPKVSQVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICF  
 RTLKLTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLVANMVPFRLHFFMPGFAPLTSRGSQQYR  
 ALTVPELTQQVFDKNNMAACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVKTA  
 VCDIPPRGLKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEY  
 QQYQDATAEEEEEDFGEEAEEEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

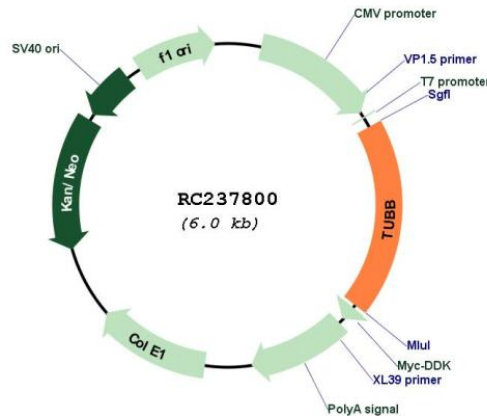
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001293216

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001293216.2</a>
<b>RefSeq Size:</b>	2574 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	203068
<b>UniProt ID:</b>	<a href="#">P07437</a>
<b>Cytogenetics:</b>	6p21.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Gap junction, Pathogenic Escherichia coli infection
<b>MW:</b>	42.2 kDa
<b>Gene Summary:</b>	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]