

## Product datasheet for RC237799

### beta V Tubulin (TUBB) (NM\_001293215) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	beta V Tubulin (TUBB) (NM_001293215) 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:	>RC237799 representing NM_001293215 Red=Cloning site Blue=ORF Green=Tags(s)

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ATGGACTCTGTTTCGCTCAGGTCCTTTTGGCCAGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTG  
GGGCAGGTAACAACCTGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCTGGATGT  
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AGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCGAAGGCCTTCTCCACTGGTACAC  
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CAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGATTTCCGGTGAAGGAGGCCAAGAGGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
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**Protein Sequence:** >RC237799 representing NM\_001293215  
Red=Cloning site Green=Tags(s)

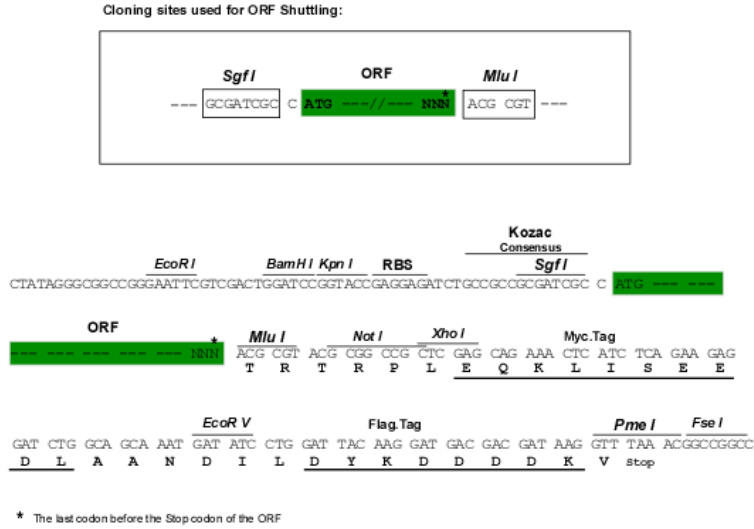
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 VCDIPPRGLKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEY  
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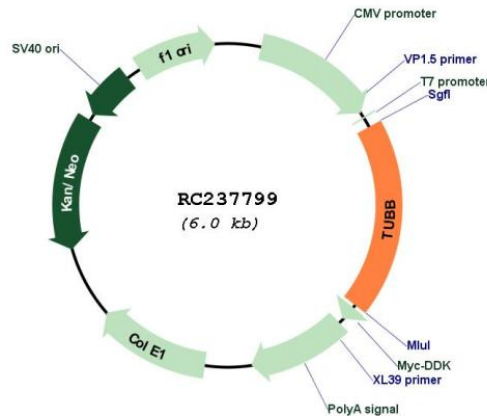
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001293215

<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_001293215.2</a>
<b>RefSeq Size:</b>	2675 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]