

## Product datasheet for **SC335694**

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

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | beta V Tubulin (TUBB) (NM_001293216) Human Untagged Clone                                  |
| Tag:                      | Tag Free   |
| Symbol:                   | TUBB   |
| Synonyms:                 | CDCBM6; CSCSC1; M40; OK/SW-cl.56; TUBB1; TUBB5   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| Fully Sequenced ORF:      | >SC335694 representing NM_001293216.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

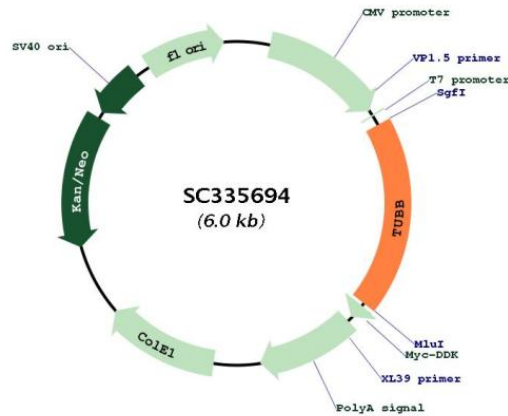
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGACTCTGTTCGCTCAGGTCCTTTTGGCCAGATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCT
GGGGCAGGTAACAAC TGGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCCTGGAT
GTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTCCAGCTGACCCACTACTGGGCGGG
GGCACAGGCTCTGGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCCTGATCGCATCATG
AATACCTTCAGTGTGGTGCCTTACCCAAAGTGTCTGACACCGTGGTCGAGCCCTACAATGCCACCCTC
TCCGTCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATC
TGCTTCCGCACTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATG
AGTGGTGTCAACCCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAAC
ATGGTCCCCTTCCCACGCTCTCCATTTCTTTATGCCTGGCTTTGCCCTCTCACCAGCCGTGGAAGCCAG
CAGTATCGAGCTCTCACAGTGCCGGAAC TACCCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCC
TGTGACCCCGCCACGGCCGATACCTCACCGTGGCTGTGTCTTCCGTGGTCGGATGTCCATGAAGGAG
GTCGATGAGCAGATGCTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAT
GTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGC
ACAGCCATCCAGGAGCTTTCAAGCGCATCTCGGAGCAGTTCACCTGCCATGTTCCGCCGGAAGGCCCTC
CTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAACGCAC
CTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCGGTGAGGAGGCC
GAAGAGGAGGCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001293216

Insert Size: 1119 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001293216.1](#)

RefSeq Size: 2574 bp

RefSeq ORF: 1119 bp

Locus ID: 203068

UniProt ID: [P07437](#)

Cytogenetics: 6p21.33

Protein Families: Druggable Genome

Protein Pathways: Gap junction, Pathogenic Escherichia coli infection

**MW:** 41.7 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]

Transcript Variant: This variant (6) lacks a portion of the 5' coding region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (e) has a shorter N-terminus than isoform a. Variants 5 and 6 encode the same isoform (e).