

## Product datasheet for **SC333394**

### TBCA (NM\_001297740) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TBCA (NM\_001297740) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TBCA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC333394 representing NM\_001297740.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCCGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCCGATCCTCGCGTGAGACAGATCAAGATCAAGACCGCGTGGTGAAGCGGTTGGTCAAAGAAAA
GTGATGTATGAAAAGAGGCAAAACAACAAGAAGAAAAGATTGAAAAATGAGAGCTGAAGACGGTGAA
AATTATGACATTAAGCAGGAAAATGAAAAGACTTGGAAAGAGCTGAGGAATATAAAGAAGCACGT
TTAGTACTGGATTCAGTGAAGTTAGAAGCCTGA
ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001297740  
**Insert Size:** 240 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).



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**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\\_001297740.1](#)

**RefSeq Size:** 593 bp

**RefSeq ORF:** 240 bp

**Locus ID:** 6902

**Cytogenetics:** 5q14.1

**MW:** 9.4 kDa

**Gene Summary:** The product of this gene is one of four proteins (cofactors A, D, E, and C) involved in the pathway leading to correctly folded beta-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing beta-tubulin intermediates in a quasi-native confirmation. Cofactor E binds to the cofactor D/beta-tubulin complex; interaction with cofactor C then causes the release of beta-tubulin polypeptides that are committed to the native state. This gene encodes chaperonin cofactor A. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

**Transcript Variant:** This variant (3) has an alternate splice site in the 3' region, which results in alternate translation stop codon, compared to variant 1. The resulting isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.