

## Product datasheet for **SC321348**

### TBCD (NM\_005993) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TBCD (NM_005993) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBCD
Synonyms:	PEBAT; SSD-1; tfcD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_005993.4  
GGCCAGCGTCGGTTGCCGCTTAGCGGGCGCCTCCTTTTCATCCCTCATCCTTCATCCCT  
GGCTTTTCGCGCTCTAGCGGAGTGGGATCTGCGAACACGTGAGGCGGGGGCGGGTCCCCA  
GGCTGCCGAGATGGCCCTGAGCGACGAACCGCCGCGGGTGGCCCGAGGAGGAGCGGA  
GGACGAGACACTGGCCTTTGGCGCGGCGCTGGAAGCGTTGCGCGAGAGCGCGGAGACCCG  
GGCGCTGCTGGGCCGCTGCGGGAGGTGCACGGCGGCGCGGAGCGCGAGGTGGCCCT  
GGAGCGGTTCCGCGTAATAATGGACAAATACCAGGAGCAGCCTCATCTGTTGGACCCGCA  
CCTTGAATGGATGATGAACCTGTTGTTGGACATAGTGCAAGATCAGACATCTCCAGCTTC  
CCTTGTACATCTGGCTTTAAATTTCTTTACATCATCACCAAGGTTTCGAGGCTATAAAAC  
ATTTCTCGTTTATTTCTCATGAAGTTGCCGATGTAGAGCCTGTTTTAGATTTGGTCAC  
AATTCAGAATCCCAAGGACCATGAAGCTTGGGAAACCCGCTACATGCTTTTGCTCTGGCT  
CTCCGTGACCTGCCTGATCCCTTTTGATTTTCTCGCCTTGACGGGAACCTCCTCACCCA  
GCCTGGGCAAGCAGCAATGTCCATAATGGACCGTATTCTCCAAATAGCAGAGTCCACTT  
GATTGTGACGTGACAAGGCCCGAGATGCAGCTGCTGCTTGTGTCCAGATTTATCACACG  
TCCTGATGTCAAGCAAAGCAAGATGGCTGAGTTCCTGGACTGGAGCCTGTGCAATCTGGC  
CCGTTCTCCTCCAGACCATGCAGGGGTCATCACCATGGATGGGACGCTGCAGGCCCT  
GGCACAAATATTTAAACATGGAAAACGTGAAGACTGTTTGGCCTATGCTGCCACTGTCCT  
CAGGTGCCTCGATGGCTGCAGACTCCCTGAGAGCAACCAGACCCTGCTGCGGAAGCTGGG  
GGTGAAGCTTGTGACGACTGGGGTGCATTCTGAAGCCGAAGGTGGCAGCATGGAG  
GTACCAGCGTGGCTGCCGATCTTTGGCTGCAAATCTGCAGCTCCTCACTCAGGGTCAGAG  
TGAGCAGAAGCCACTCATCTGACCGAAGATGACGACGAAGATGACGACGTCACAGAGGG  
GGTGGAGCGTGTGATAGAGCAGCTGCTGGTGGGCTGAAGGACAAGGACACGGTCTGCG  
GTGGTCTGCAGCCAAGGGCATCGGTAGGATGGCTGGCAGGCTTCCAGAGCCCTGGCGGA  
TGATGTGGTGGGCTGTGCTGGACTGCTTCAAGTTCCAGGAGACTGACAAGGCGTGCCA  
TGGGGGATGTCTGGCGTGGCAGAGCTGGGCAGGAGAGGCTGTTGCTGCCGTCTCGACT  
CGTGGATGTTGTCGCCGTGATCCTGAAGGCGTGACCTACGACGAGAAGCGGGTGCCTG  
CAGCGTGGGCACCAACGTGAGGACGCCGCTGCTACGTGTGCTGGGCTTCGCGCGTGC



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CTATGAGCCTCAGGAGCTGAAGCCCTTTGTGACTGCAATCTCGAGTGCCTGGTATTGC  
 TGCGGTGTTTGACCGAGACATAAACTGCAGAAGAGCAGCCTCTGCCGCCTTCCAGGAGAA  
 TGTGGGGAGACAGGGCACTTTCCCTCATGGTATTGATATTTTGACCACAGCTGACTATTT  
 TGCCGTCGGTAACAGATCCAAGTGTTCCTGGTTATAAGTGTGTTTATTGCCGGCTTTCC  
 TGAGTACACGCAGCCAATGATAGACCACCTGGTTACCATGAAGATCAGCCACTGGGATGG  
 GGTCCATCCGAGAGTTGGCTGCGAGGGCGCTGCACAACCTGGCCCAGCAGGCACCCGAGTT  
 CAGCGCCACCAAGTCTTCCCGAGGCTGCTGCCATGACACTGAGTCCAGATCTTCACAT  
 GAGGCATGGGTCGATTCTCGCCTGCGCAGAAGTTGCTTACGCCTGTACAAACTTGCAGC  
 CCAAGAGAACAGGCCCGTACGGACCATCTGGACGAGCAGGCAGTGCAGGGCCTGAAGCA  
 GATTACCAGCAGCTCTATGATCGTCAGTTATACAGGGGTCTGGGAGGACAGCTCATGAG  
 ACAAGCAGTGTGTGTTTTAATAGAAAAGTTGTCACCTTTCCAAAATGCCCTTTAGAGGTGA  
 CACCGTAATTGATGGTTGGCAATGGCTGATAAATGACACTTTGAGACATCTCCATCTCAT  
 CTCAAGTCACTCCCGCCAGCAGATGAAGGATGCAGCAGTCTCGGCCCTGGCTGCTCTATG  
 CAGTGAATATTACATGAAGGAGCCGGGGAGGCAGATCCCGCAATTCAGGAGGAGCTGAT  
 CACGCAGTACCTGGCTGAGCTTCGGAACCCCGAGGAGATGACTCGCTGTGGCTTCTCGTT  
 GGCTTGGGGCCCTTCCAGGCTTCCTTCTGAAAGGCCGCTCCAGCAGGTTCTCACAGG  
 TTTAAGAGCAGTTACCCACACTTCCCCGAGGACGTAAGTTTTGCTGAGTCCAGGAGAGA  
 CGGCTTGAAGGCCATTGCGAGGATTTGCCAGACTGTTGGTGTGAAAGCAGGAGCCCCAGA  
 CGAAGCTGTGTGCGGAGAGAATGTTTTCCAGATTTACTGTGCGCTGCTGGGCTGCATGGA  
 CGACTACACCACGGACAGCAGAGGGGACGTGGGCACCTGGGTCCGCAAGGCCGCCATGAC  
 CAGTCTGATGGATCTGACACTTCTGCTGGCTCGGAGCCAGCCTGAGCTGATCGAGGCCA  
 TACCTGTGAGCGCATCATGTGCTGTGTGGCCCAGCAGGCCAGTGAAGAATTGACCGTTT  
 CCGTCTCAGCCGCGCAGCGTGTTCCTGACGCTCCTGCACTTTGACAGCCCTCCCATCCC  
 CCACGTGCCCCACCGAGGAGAAGTGGAAAAGCTGTTTTCCAGGTCGGATGTGGCCCTCGT  
 GAACTGGAGTGCACCTTCCAGGCTTCCACGCATCACCCAGCTCCTTGGGCTGCCAC  
 CTACCGCTACCACGTCCTGCTGGGGCTAGTCGTGTCCCTGGGCGGCTTGACGGAGTCGAC  
 GATCCGGCACTCCACCCAGAGCCTCTTTGAGTACATGAAGGGCATTAGAGCGACCCGCA  
 GGCCCTGGGCAGCTTCCAGCGGACCTTCTGCAGATCTTTGAGGACAACCTTCTGAATGA  
 GAGGGTGTCCGTGCCGCTGCTGAAGACGCTGGACCACGTGCTCACCCACGGCTGCTTCGA  
 CATCTTACCACGGAGGAGGACCACCCCTTTGCTGTGAAGTTGCTTGGCTCTGTAAGAA  
 AGAAATCAAGAATTCAAAAGATATCCAGAAGCTCCTGTCAGGCATCGCAGTGTCTGCGG  
 GATGGTGCAGTTCCCGGCGACGTGAGGAGGCAGGCCCTCCTGCAGCTGTGTCTGCTCCT  
 CTGCCACCGTTTTCCCGCTGATCCGGAAGACCACGGCCAGCCAGGTGTACGAGACATTGCT  
 CACCTACAGTGCAGTCTGTGGGCGCGGATGTGCTGGACGAGGTGGTACTGTGCTCAGTGA  
 CACTGCGTGGGACGCGGAGCTTGCAGTGGTGAGAGAGCAGCGCAACCGTCTGTGTGACCT  
 TCTGGGCGTACCCAGGCCCCAGCTGGTGCCCGAGCCTGGTGCCTGCTGAAGCCAGTCTGT  
 GAGCCCATACCTACCCCTGCCTGGTGAGGATGTCTTGTCTCTGAGGGAGGCCGGTGTGG  
 AAAGCCTCGCACAGTGGTGCCTCCAGCTGTTGAAGGGTAGCGCTGGCCCTTGGAGGCTGG  
 CACTAGCTGACAGCTTTTCTCTCTGACCTGCGCTCTGGTACTTGGGGTGGACGCCTC  
 TGCTTCACTTGAACACAAATGTCTTCTATAAAATCATGTACCAAGAAAAAAAAAAAAA  
 AAAAAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_005993

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_005993.4</a> , <a href="#">NP_005984.3</a>
<b>RefSeq Size:</b>	4449 bp
<b>RefSeq ORF:</b>	3579 bp
<b>Locus ID:</b>	6904
<b>UniProt ID:</b>	<a href="#">Q9BTW9</a>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	B-tub_coD
<b>Gene Summary:</b>	Cofactor D 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. [provided by RefSeq, Jul 2008]