

Product datasheet for **SC100437**

TBC1D1 (NM_015173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D1 (NM_015173) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBC1D1
Synonyms:	TBC; TBC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015173, the custom clone sequence may differ by one or more nucleotides

```

ATGGAACCAATAACATTCACAGCAAGGAAACATCTGCTTTCTAACGAGGTCTCGGTGGATTTTGGCCTGC
AGCTGGTGGGCTCCCTGCCTGTGCATTCCCTGACCACCATGCCCATGCTGCCCTGGGTTGTGGCTGAGGT
GCGAAGACTCAGCAGGCAGTCCACCAGAAAGGAACCTGTAACCAAGCAAGTCCGGCTTTGCGTTTACCC
TCTGGACTGAGATGTGAACCTGAGCCAGGGAGAAGTCAACAGTGGGATCCCCTGATCTATTCCAGCATCT
TTGAGTGAAGCCTCAGCGTGTTCACAACTGATTCACAACAGTCATGACCCAAGTTACTTTGCTTGCTCT
GATTAAGGAAGACGCTGTCCACCGCAGAGTATCTGCTATGTGTTCAAAGCCGATGATCAAACAAAAGTG
CCTGAGATCATCAGTCCATCCGTCAGGCGGGGAAGATCGCCCGCAGGAGGAGCTGCACCTGCCGTCGG
AGTTTCAGCAGACGTTTTCCAAGAAGTTCGAGGTGCTCTTCTGCGGCCGGTGACGGTGGCGCACAAAGAA
GGCTCCGCGGCCCTGATCGACGAGTGCATCGAGAAGTTCAATCACGTCAGCGGCAGCCGGGGTCCGAG
AGCCCCGCCCAACCCGCCCATGCCGCGCCACAGGGAGCCAGGAGCCTGTGCGCAGGCCCATGCGCA
AGTCTTCTCCCAGCCCGCCTGCGCTCGCTGGCCTTTAGGAAGGAGCTGCAGGATGGGGCCCTCCGAAG
CAGCGGCTTCTCAGCTCCTTCGAGGAGAGCGACATTGAGAACCACCTCATTAGCGGACACAATATTGTG
CAGCCCACAGATATCGAGGAAAAATCGAACTATGCTCTTACGATTGGCCAGTCTGAAGTTACCTCATCA
GTCCTGACACCAAAAAATAGCATTGGAGAAAAATTTAAGGAGATATCCTTTTGCTCTCAGGGCATCAG
ACACGTGGACCACTTTGGGTTTATCTGTGCGGAGTCTTCCGGAGGTGGCGGCTTTCAATTTGTCTGTTAC
GTGTTTCAGTGACAAAATGAGGCTCTGGTTGATGAAATTATGATGACCCTGAAACAGGCCTTCACGGTGG
CCGCAGTGCAGCAGACAGCTAAGGCGCCAGCCAGCTGTGTGAGGGCTGCCCCCTGCAAAGCCTGCACAA
GCTCTGTGAGAGGATAGAGGGAATGAATCTTCCAAAACAAAAGTGAAGTGCAAAAGCACCTGACGACA
TTAACCAATCAGGAGCAGGCGACTATTTTTGAAGAGGTTGAGAAATTGAGACCGAGAAAATGAGCAGCGAG
AGAATGAATTGATTATTTCTTTTCTGAGATGTTTATATGAAGAGAAAACAGAAAGAACACATCCATATTGG
GGAGATGAAGCAGACATCGCAGATGGCAGCAGAGAATATTGGAAGTGAATTACCACCCAGTGCCACTCGA
TTTAGGCTAGATATGCTGAAAAACAAAGCAAAGAGATCTTTAACAGAGTCTTTAGAAAGTATTTGTCCC
GGGTAATAAAGCCAGAGGCCTGCAGGAACACTCCATCAGTGTGGATCTGGATAGCTCCCTGTCTAGTAC

```



[View online »](#)

```

ATTAAGTAACACCAGCAAAGAGCCATCTGTGTGTGAAAAGGAGGCCTTGCCCATCTCTGAGAGCTCCTTT
AAGCTCCTCGGCTCCTCGGAGGACCTGTCCAGTACTCGGAGAGTCATCTCCAGAAAGAGCCAGCTCCGC
TGTCGCCCCAGCAGGCCTTCAGGAGGCGAGCAAACACCCTGAGTCACTTCCCCATCGAATGCCAGGAACC
TCCACAACCTGCCCGGGGTCCCCGGGGTTTCGCAAAGGAACTTATGAGGTATCACTCAGTGAGCACA
GAGACGCCTCATGAACGAAAGGACTTTGAATCCAAAGCAAACCATCTTGGTGATTCTGGTGGGACTCCTG
TGAAGACCCGGAGGCATTCTCGAGGCAGCAGATATTCTCCGAGTAGCCACCCCGAGAAGGCGTGCGA
TTCTTCCAGCAGATAGAAGATTATTCAGAGCTGGGAGAGCTTCCCCACGATCTCCTTTAGAACCAGTT
TGTGAAGATGGGCCCTTTGGCCCCACCAGAGGAAAAGAAAAGGACATCTCGTGAGCTCCGAGAGCTGT
GGCAAAAAGGCTATTCTTCAACAGATACTGCTGCTTAGAATGGAGAAGGAAAATCAGAAGCTCCAAGCCTC
TGAAAAATGATTTGCTGAACAAGCGCCTGAAGCTCGATTATGAAGAAATTACTCCCTGTCTTAAAGAAGTA
ACTACAGTGTGGGAAAAGATGCTTAGCACTCCAGGAAGATCAAAAATTAAGTTTGACATGGAAAAATGC
ACTCGGCTGTTGGGCAAGGTGTGCCACGTCATACCGAGGTGAAATCTGGAAATTTCTAGCTGAGCAATT
CCACCTTAAACACCAGTTTCCAGCAAACAGCAGCCAAAGGATGTCCATACAAAGAACTCTTAAAGCAG
CTGACTTCCAGCAGCATGCGATTCTTATTGACCTTGGGCGAACCTTTCCTACACACCCATACTTCTCTG
CCCAGCTTGGAGCAGGACAGCTATCGCTTACAACATTTTGAAGGCCTACTCACTTCTAGACCAGGAAGT
GGGATATTGCCAAGGTCTCAGCTTGTAGCAGGCATTTTCTTCTCATATGAGTGAGGAAGAGGCGTTT
AAAATGCTCAAGTTTCTGATGTTTGACATGGGGCTGCGGAAACAGTATCGGCCAGACATGATATTTTAC
AGATCCAGATGTACCAGCTCTCGAGGTTGCTTCATGATTACCACAGAGACCTCTACAATCACCTGGAGGA
GCACGAGATCGGCCCCAGCCTCTACGCTGCCCCCTGGTTCCTCACCATGTTTGCCTCACAGTTCCCGCTG
GGATTCGTAGCCAGAGTCTTTGATATGATTTTTCTTCAGGGAACAGAGGTCAATTTAAAGTGGCTTTAA
GTCTGTTGGGAAGCCATAAGCCCTTGATTCTGCAGCATGAAAACCTAGAAACCATAGTTGACTTTATAAA
AAGCAGCTACCAACCTTGGCTTGGTACAGATGGAAAAGACCATCAATCAGGTATTTGAAATGGACATC
GCTAAACAGTTACAAGCTTATGAAGTTGAGTACCACGCTCTTCAAGAAGAACTTATCGATTCTCTCCTC
TCAGTGACAACCAAGAATGGATAAATTAGAGAAAACCAACAGCAGCTTACGCAAAACAGAACCTTGACCT
CCTTGAACAGTTGCAGGTGGCAAATGGTAGGATCCAAAGCCTTGAGGCCACCATTGAGAAGCTCCTGAGC
AGTGAGAGCAAGCTGAAGCAGGCCATGCTTACCTTAGAACTGGAGCGGTGCGCCCTGCTGCAGACGGTGG
AGGAGCTGCGGCGGCGGAGCGCAGAGCCAGCGACCGGGAGCCTGAGTGCACGCAGCCCGAGCCACGGG
CGACTGA
    
```

**5' Read Nucleotide
Sequence:**

```

>OriGene 5' read for NM_015173 unedited
GGATTTTGTAAATACGACTCACTTATAGGCGGCCGCAATTCGCACGAGGGATTATTTCT
TTTCTGAGATGTTTATATGAAGAGAAAACAGAAAGAACACATCCATATTGGGGAGATGAAG
CAGACATCGCAGATGGCAGCAGAGAATATTGGAAGTGAATTACCACCCAGTGCCACTCGA
TTTAGGCTAGATATGCNTGAAAAACAAAGCAAAGAGATCTTTAACAGAGTCTTTAGAAAG
TATTTTGTCCCGGGTAATAAAGCCAGAGGCCTGCAGGAACACTCCATCAGTGTGGATCT
GGATAGCTCCCTGTCTAGTACATTAAGTAACACCAGCAAAGAGCCATCTGTGTGAAAA
GGAGGCCTTGCCCATCTCTGAGAGCTCCTTTAAGCTCCTCGGCTCCTCGGAGGACCTGTC
CAGTGACTCGGAGAGTCATCTCCAGAAGAGCCAGCTCCGCTGTGCCCCAGCAGGCCTT
CAGGAGGCGAGCAAACACCCTGAGTCACTTCCCCATCGAATGCCAGGAACCTCCACAACC
TGCCCCGGGGTCCCCGGGGTTTCGCAAAGGAACTTATGAGGTATCACTCAGTGAGCAC
AGAGACGCCTCATGAACGAAAGGACTTTGAATCCAAAGCAAACCATCTTGGTGATTCTGG
TGGGACTCCTGTGAAGACCCGGAGGCATTCCTGGAGGCAGCANGATATTCCTCCGAGTAG
CCACCCCGCAGAAGGCGTGCGATTCTTCCAGCAGATATGAAGATTATTCAGAGCTGGGAG
AGCTTCCNACGATCTCCTTTAAACCAGTTGGGGAAGATGGGCCCTTTGCCNCACCAG
AGAAAAGAAAGGACATCTCGTGAGCTCCGAGACTGGGCAAAGGGCTATCTCACAGATCTG
CTGCTAGAATGGAGAAGGAAANNNTCAGAGCTCCAGCTCTGAAAATGATTGCTGNACAGCG
CCCTGAGCTCGATATGAAGAAATACTNNTGNCTTAAAGTACTNCAGTGTGAAAAGAT
GCTACA
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015173 unedited ACTATGGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGAACATAA GTTGCATTTATTCACGTCCACGCCATCTAAAGCTACTGTGTACAGTAATCAGGACTGGAG AAGGGACGATTTAGTATCTAAAAACAACAAAAAAACACTGGGACATGCCCCCTGAATTG CAAGTTGGAGTTCGTAAGAATCTACTTGCTGGCAAGCCGTTTTCTCCCTGAGAAGCACA CTTCCCCTTCTCTCCTCCAGCGTCTTCTGTCCCTCAGTTAAGGCCTGGACAG TGTGGGATGGTGTGCAATCTCTCTGCAAGCTGTGAGTCGCGCCGTTGGGCTCGGGCTGC GTGCACTCAGGCTCCCGTCTGCTGGGCTCTGCGCTCCGCCGCGCAGCTCCTCCACCGTC TGCAGCAGGGCCGACTGCTCCAGTTCTAAGGTAAGCATGGCCTGCTTCAGCTTGCTCTCA CTGCTCAGGAGCTTCTCAATGGTGGCCTCAAGGCTTTGGATCCTACCATTTGCCACCTGC AACTGTTCAAGGAGGTCAAGGTTCTGTTTGCCTAAGCTGCTGTTGGTTTTCTCAATTTA TCCATTCTTTGGTTGTCAGTACTGAGAGGAGGAATCGATAAGTTCTTCTGAAGGACGTGG TACTCAACTTCATAAGCTTGTAACTGTTTAGCGATGTCCATTTCAAATACCTGATTGATG GTCTTTTCCATCTGTACCAAGCCAAGTTGGGTAGCGTGTCTTTTATAAAGTCAACTATG GTTTCTAGGTTTTTCTGCTGCAGAAATCAAGGGCTTATGGGCTTCCACAGACTTAAAGCA CTTTAATATGACCTCTGTTCCCTGAAGAAAAATCTATCANAACCTCTGGCTACGAATCCC AACGGGGACTGTTGAGCAAAACATGGTGGAGGAAACCAGGGGGCAGCGTANAAGCTTGGGC CGGATCTCGTGCTCCTCCAGTGATGTTAAG
Restriction Sites:	NotI-NotI
ACCN:	NM_015173
Insert Size:	2500 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:	<ol style="list-style-type: none"> 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:	<u>NM_015173.1, NP_055988.1</u>
RefSeq Size:	5705 bp
RefSeq ORF:	2025 bp
Locus ID:	23216
UniProt ID:	<u>Q86TI0</u>
Cytogenetics:	4p14
Domains:	TBC

Protein Families: Druggable Genome

Gene Summary: TBC1D1 is the founding member of a family of proteins sharing a 180- to 200-amino acid TBC domain presumed to have a role in regulating cell growth and differentiation. These proteins share significant homology with TRE2 (USP6; MIM 604334), yeast Bub2, and CDC16 (MIM 603461) (White et al., 2000 [PubMed 10965142]).[supplied by OMIM, Mar 2008]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).