

## Product datasheet for **SC332256**

### **TBC1D1 (NM\_001253915) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TBC1D1 (NM\_001253915) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TBC1D1  
**Synonyms:** TBC; TBC1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332256 representing NM\_001253915.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGATTTTCTTCAGGGAACAGAGGTCATATTTAAAGTGGCTTTAAGTCTGTTGGGAAGCCATAAGCCC  
TTGATTCTGCAGCATGAAAACCTAGAAACCATAGTTGACTTTATAAAAAGCACGCTACCCAACCTTGCC  
TTGGTACAGATGGAAAAGACCATCAATCAGGTATTTGAAATGGACATCGCTAAACAGTTACAAGCTTAT  
GAAGTTGAGTACCACGTCCTTCAAGAAGAACTTATCGATTCTCTCTCTCAGTGACAACCAAAGAATG  
GATAAATTAGAGAAAACCAACAGCAGCTTACGCAAACAGAACCTTGACCTCCTTGAACAGTTGCAGGTG  
GCAAATGGTAGGATCAAAGCCTTGAGGCCACCATTGAGAAGCTCCTGAGCAGTGAGAGCAAGCTGAAG  
CAGGCCATGCTTACCTTAGAACTGGAGCGGTGGGCCCTGCTGCAGACGGTGGAGGAGCTGCGGCGCGG  
AGCGCAGAGCCCAGCGACCGGGAGCCTGAGTGCACGCAGCCCAGCCCACGGGCGACTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001253915  
**Insert Size:** 543 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).



[View online »](#)

**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\\_001253915.1](#)

**RefSeq Size:** 2540 bp

**RefSeq ORF:** 543 bp

**Locus ID:** 23216

**Cytogenetics:** 4p14

**Protein Families:** Druggable Genome

**MW:** 20.5 kDa

**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 (5) differs in the 5' UTR, lacks a large portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (4) has a significantly shorter N-terminus, compared to isoform 1.