

Product datasheet for **RG233376**

TBC1D1 (NM_001253915) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TBC1D1 (NM_001253915) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TBC1D1
Synonyms: TBC; TBC1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233376 representing NM_001253915
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTTTTCTTCAGGGAACAGAGGTCATATTTAAAGTGGCTTTAAGTCTGTTGGGAAGCCATAAGCCCT
 TGATTCTGCAGCATGAAAACCTAGAAACCATAGTTGACTTTATAAAAAGCAGCTACCCAACCTTGGCTT
 GGTACAGATGGAAAAGACCATCAATCAGGTATTTGAAATGGACATCGCTAAACAGTTACAAGCTTATGAA
 GTTGAGTACCACGTCCTCAAGAAGAATTATCGATTCTCTCCTCTCAGTGACAACCAAGAATGGATA
 AATTAGAGAAAACCAACAGCAGCTTACGCAAACAGAACCTTGACCTCCTGAACAGTTGCAGGTGGCAA
 TGGTAGGATCCAAGCCTTGAGGCCACCATGAGAAGCTCCTGAGCAGTGAGAGCAAGCTGAAGCAGGCC
 ATGCTTACCTTAGAACTGGAGCGGTGCGCCCTGCTGCAGACGGTGGAGGAGCTGCGGCGGCGGAGCGCAG
 AGCCAGCGACCGGGAGCCTGAGTGCACGCAGCCCGAGCCACGGGCGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233376 representing NM_001253915
 Red=Cloning site Green=Tags(s)

MIFLQGTVEVIFKVALSLLGSHKPLILQHENLETIVDFIKSTLPNLGLVQMEKTINQVFEMDIAKQLQAYE
 VEYHVLQEELIDSSPLSDNQRMDKLEKTNSSLRKQNLDLLEQLQVANGRIQSLEATIEKLLSSESCLKQA
 MLTLELERSALLQTVEELRRRSAPSDREPECTQPEPTGD

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001253915

ORF Size: 540 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001253915.1](#), [NP_001240844.1](#)

RefSeq Size: 2540 bp

RefSeq ORF: 543 bp

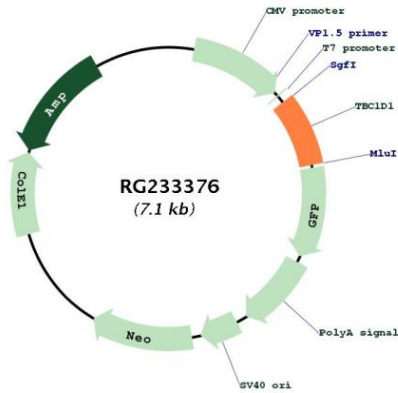
Locus ID: 23216

Cytogenetics: 4p14

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]

Product images:



Circular map for RG233376