

## Product datasheet for **RC223601**

### TRF2 (TERF2) (NM\_005652) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TRF2 (TERF2) (NM_005652) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRF2
Synonyms:	TRBF2; TRF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC223601 representing NM\_005652  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGAGGAGCGGGAGTAGCGACGCGAGCGGGCGGGCAGCTGGCAGCGGGCGTCCCGCAGTAGCG  
 GCGGGGCCGGCGGGGGCCACGAGCCGGGGCTGGGGGGCCCGCGGAGCGCGCGGGGGAGGCACG  
 GCTGGAAGAGGCAGTCAATCGCTGGGTGCTCAAGTTCTACTTCCACGAGGCGCTGCGGGCCTTTCGGGGT  
 AGCCGGTACGGGACTTCAGACAGATCCGGGACATCATGCAGGCTTTGCTTGTGTCAGGCCCTTGGGAAGG  
 AGCACACCGTGTCCGATTGCTGCGGGTTATGCAGTGTCTGTCGCGGATTGAAGAAGGGGAAAAATTTAGA  
 CTGTTCCCTTTGATATGGAGGCTGAGCTCACACCACTGGAATCAGCTATCAATGTGCTGGAGATGATTA  
 ACGGAATTTACACTGACAGAAGCAGTGGTGAATCCAGTAGAAAAGTGGTCAAGGAAGCTGCTGTCATTA  
 TTTGTATCAAAAACAAAGAATTTGAAAAGGCTTCAAAAATTTGAAAAACATATGTCCAAGGACCCAC  
 AACTCAGAAGCTGAGAAATGATCTCCTGAATATTATTCGAGAAAAGAACTGGCCCATCCTGTTATCCAG  
 AACTTTTCATATGAGACCTTCCAGCAGAAGATGCTGCGCTTCTGGAGAGCCACCTGGATGACGCCGAGC  
 CCTACCTCCTCAGATGGCCAAAAGGCTTTGAAATCTGAGTCCGCTGCCTCAAGTACAGGGAAGGAAGA  
 TAAACAGCCAGCACAGGGCCTGTGAAAAGCCACCCAGAGAACCCGCAAGGCAGCTACGGAATCCTCCA  
 ACCACCATTTGAAATGATGACTCTGAAAGCAGCTTCAAGACTCTGTCTGGTGCACAGGATTTGAGGCAG  
 CCTTTGCAAACTGGACCAGAAGGATCTGGTCTTCTACTCAAGCTCTCCAGCATCACCAGCCCTCAA  
 AAACAAGAGACCCAGAAAAGATGAAAACGAAAGTTCAGCCCCGGTGACGGTGAGGGTGGCTCGAACTG  
 CAGCCCAAGAACAAGCGCATGACAATAAGCAGATTGGTCTTGGAGGAGGACAGCCAGAGTACTGAGCCCA  
 GCGCAGCCCTCAACTCTCCAGGAGCCGCTTCCAGCGCCACCATCCAAGCCACCGTTCTCAACCAACC  
 CCTCCCTGGAGAGAAGAATCCCAAAGTACCCAAAGGCAAGTGGAAACAGCTCTAATGGGGTTGAAGAAAAG  
 GAGACTTGGTGGAAGAGGATGAACTGTTTCAAGTTCAGGCAGCACAGATGAAGACAGTACAACCAATA  
 TAACAAAAAGCAGAAGTGGACTGTAGAAGAAAGCAGTGGGTCAAGGCTGGAGTGCAGAAATATGGGGA  
 AGGAAACTGGGCTGCCATTTCTAAAAATTACCATTTGTTAACCGAACAGCTGTGATGATTAAGGATCGC  
 TGGCGGACCATGAAAAGACTTGGCATGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC223601 representing NM\_005652  
 Red=Cloning site Green=Tags(s)

MAGGGSSDGSRAAGRASRSSGRARRGRHEPGLGPAERGAGEARLEEAVNRWVLFYFHEALRAFRG  
 SRYGDFRQIRDIMQALLVRPLGKEHTVSRLLRVMQCLSRIEEENLDCSFDMEAELETPLESAINVLEMIK  
 TEFTLAEAVVSSRKLVEAAVVICIKNEFEKASKILKHKMSKDPPTQKLRNDLLNIIREKNLAHPVIQ  
 NFSYETFQKMLRFLESHLDDAEPYLLTMAKKALKSESAASSTGKEDKQPAPGPVEKPPREPARQLRNPP  
 TTIGMMLKAAFKTLGSAQDSEAAFAKLDQKDLVLPQALPASPALKNKRPRKDENESSAPADGEGGSEL  
 QPKNKRMTISRLVLEEDSQSTEPSAGLNSSQEAASAPPSKPTVLNQPLPGEKNPKVPGKWNSSNGVEEK  
 ETWVEEDELQVQAAPDEDSTTNIKKQKWTVEESEWVKAGVQKYEGNWAASIKNYPFVNRTAVMIKDR  
 WRTMKRLGMN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3799\\_g01.zip](https://cdn.origene.com/chromatograms/mg3799_g01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_005652

**ORF Size:** 1500 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\\_005652.3](#)

**RefSeq Size:** 2909 bp

**RefSeq ORF:** 1629 bp

**Locus ID:** 7014

**UniProt ID:** [Q15554](#)

**Cytogenetics:** 16q22.1

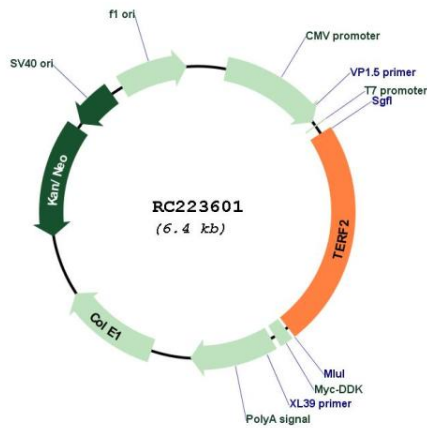
**Domains:** myb\_DNA-binding

**Protein Families:** Transcription Factors

**MW:** 55.4 kDa

**Gene Summary:** This gene encodes a telomere specific protein, TERF2, which is a component of the telomere nucleoprotein complex. This protein is present at telomeres in metaphase of the cell cycle, is a second negative regulator of telomere length and plays a key role in the protective activity of telomeres. While having similar telomere binding activity and domain organization, TERF2 differs from TERF1 in that its N terminus is basic rather than acidic. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC223601



Coomassie blue staining of purified TERF2 protein (Cat# [TP323601]). The protein was produced from HEK293T cells transfected with TERF2 cDNA clone (Cat# RC223601) using MegaTran 2.0 (Cat# [TT210002]).