

Product datasheet for **RG223601**

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:	TurboGFP
Symbol:	TRF2
Synonyms:	TRBF2; TRF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223601 representing NM_005652
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGAGGAGCGGGAGTAGCGACGGCAGCGGGCGGGCAGCTGGCAGCGGGCGTCCCGCAGTAGCG
 GCGGGCCCGGGGGGGCCACGAGCCGGGGCTGGGGGGCCCGCGGAGCGCGCGGGGGAGGCACG
 GCTGGAAGAGGCAGTCAATCGCTGGGTGCTCAAGTTCTACTTCCACGAGGCGCTGCGGGCCTTTCCGGGT
 AGCCGGTACGGGACTTCAGACAGATCCGGGACATCATGCAGGCTTTGCTTGTGTCAGGCCCTTGGGAAGG
 AGCACACCGTGTCCGATTGCTGCGGGTATGCAGTGTCTGTCGCGGATTGAAGAAGGGGAAATTTAGA
 CTGTTCCCTTTGATATGGAGGCTGAGCTCACACCACTGGAATCAGCTATCAATGTGCTGGAGATGATTA
 ACGGAATTTACACTGACAGAAGCAGTGGTGAATCCAGTAGAAAAGTGGTCAAGGAAGCTGCTGTCATTA
 TTTGTATCAAAAACAAAGATTTGAAAAGGCTTCAAAAATTTGAAAAACATATGTCCAAGGACCCAC
 AACTCAGAAGCTGAGAAATGATCTCCTGAATATTATTCGAGAAAAGAACTGGCCCATCCTGTTATCCAG
 AACTTTTCATATGAGACCTTCCAGCAGAAGATGCTGCGCTTCTGGAGAGCCACCTGGATGACGCCGAGC
 CCTACCTCCTCAGATGGCCAAAAGGCTTTGAAATCTGAGTCCGCTGCCTCAAGTACAGGGAAGGAAGA
 TAAACAGCCAGCACAGGGCCTGTGAAAAGCCACCCAGAGAACCCGCAAGGCAGCTACGGAATCCTCCA
 ACCACCATTGGAATGATGACTCTGAAAGCAGCTTCAAGACTCTGTCTGGTGCACAGGATTCTGAGGCAG
 CCTTTGCAAACTGGACCAGAAGGATCTGGTCTTCTACTCAAGCTCTCCAGCATCACCAGCCCTCAA
 AAACAAGAGACCCAGAAAAGATGAAAACGAAAGTTCAGCCCCGGTGACGGTGAAGGTGGCTCGAACTG
 CAGCCCAAGAACAAGCGCATGACAATAAGCAGATTGGTCTTGGAGGAGGACAGCCAGAGTACTGAGCCCA
 CGCAGGCCTCACTCCTCCAGGAGCGCTTCCAGCGCCACCATCCAAGCCACCGTTCTCAACCAACC
 CCTCCCTGGAGAGAAGAATCCCAAAGTACCCAAAGGCAAGTGAACAGCTCTAATGGGGTTGAAGAAAAG
 GAGACTTGGTGGAAGAGGATGAACTGTTTCAAGTTCAGGCAGCACAGATGAAGACAGTACAACCAATA
 TAACAAAAAGCAGAAGTGGACTGTAGAAGAAAGCAGTGGGTCAAGGCTGGAGTGCAGAAATATGGGGA
 AGGAACTGGGCTGCCATTTCTAAAAATTACCATTTGTTAACCGAACAGCTGTGATGATTAAGGATCG
 TGGCGGACCATGAAAAGACTTGGCATGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223601 representing NM_005652
 Red=Cloning site Green=Tags(s)

MAGGGSSDGSGRAAGRASRSSGRARRRHEPGLGPAERGALEARLEEAVNRWVLKIFYFHEALRAFRG
 SRYGDFRQIRDIMQALLVRPLGKEHTVSRLLRVMQCLSRIEEENLDCSFDMEAELETPLESAINVLEMIK
 TEFTLLEAVVESSRKLVKAAVVICIKNKEFEKASKILKKHMSKDPPTTQKLRNDLLNIIREKNLAHPVIQ
 NFSYETFQKMLRFLESHLDDAEPYLLTMAKKALKSESAASSTGKEDKQPAPGPVEKPPREPARQLRNPP
 TTIGMMLKAAFKTLSGAQDSEAAFAKLDQKDLVLPQTALPASPALKNKRPRKDESSAPADGEGGSEL
 QPKNKRMTISRLVLEEDSQSTEPSAGLNSSQEAASAPPSKPTVLNQPLPGEKNPKVPKGKWNSSNGVEEK
 ETWVEEDELQVQAAPDEDSTTNIITKKQKWTVEESEWVKAGVQKYEGNWAASIKNYPFVNRTAVMIKDR
 WRTMKRLGMN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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](#)

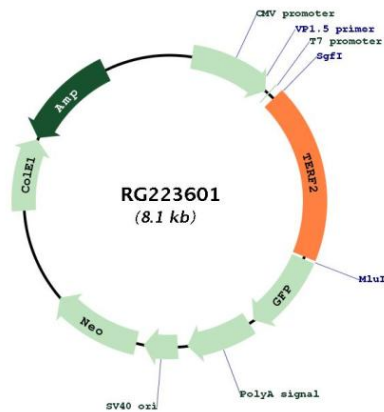
Cytogenetics: 16q22.1

Domains: myb_DNA-binding

Protein Families: Transcription Factors

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 RG223601