

Product datasheet for **RG205904**

TRF1 (TERF1) (NM_003218) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TRF1 (TERF1) (NM_003218) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TRF1
Synonyms: hTRF1-AS; PIN2; t-TRF1; TRBF1; TRF; TRF1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG205904 representing NM_003218
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGAGGATGTTTCCTCAGCGGCCCGAGCCCGGGGCTGTGCGGATGGTAGGGATGCCGACCCTA
 CTGAGGAGCAGATGGCAGAAACAGAGAGAAACGACGAGGAGCAGTTCGAATGCCAGGAACTGCTCGAGTG
 CCAGGTGCAGGTGGGGCCCCGAGGAGGAGGAGGAGGAGGAGGAGGACGCGGCCCTGGTGGCCGAGGCC
 GAGGCCGTGGCTGCCGGCTGGATGCTCGATTTCTCTGCCTCTCTTTGCCGAGCTTCCGCGACGGCC
 GCTCCGAGGACTCCGCAGGACCCGCAACAGCGCAGAGGCTATTATTCATGGACTATCCAGTCTAACAGC
 TTGCCAGTTGAGAACGATATACATATGTGAGTTTTTGACAAGAATTGCAGCAGGAAAAACCTTGATGCA
 CAGTTTAAAAATGATGAACGAATTACACCTTGAATCAGCCCTGATGATTTGGGGTTCAATTGAAAAGG
 AACATGACAACTTCATGAAGAAATACAGAATTAATTAATAAATTCAGGCTATAGCTGTTTGTATGAAAA
 TGGCAACTTTAAAGAAGCAGAAGAAGTCTTTGAAAGAATTTGGTGATCCAAATTCATATGCCTTTC
 AAAAGCAAATGCTTATGATAATCTCTCAGAAAGATACATTTTCATTCTTTTTCAACACTTCAGCTACA
 ACCACATGATGGAGAAAATTAAGAGTTATGTGAATTATGTGCTAAGTGAAAAATCATCAACCTTTCTAAT
 GAAGGCAGCGGCAAAAGTAGTAGAAAGCAAAAGGACAAGAACAATAACTTCTCAAGATAAACCTAGTGTT
 AATGATGTTGAAATGAAACTGAAGCTAATTTGGATACAAGAAAAGGTCACAAAGAACTTTTTCTTAT
 CTAAGTTGCAACATGGAACCCAGCAACAAGACCTTAATAAGAAAAGAAAGAGTAGGAACCTCTCAAAG
 TACAAAAAAGAAAAAAGAAAGCAGAAGGCCACTGAAAGCAGAATACCTGTTTCAAAGAGTCAGCCGGTA
 ACTCCTGAAAAACATCGAGCTAGAAAAAGACAGGCATGGCTTTGGGAAGAAGACAAGAAATTTGAGATCTG
 GCGTGAGGAAATATGGAGAGGAAACTGGTCTAAAATACTGTTGCATTATAAATTCACAACCGGACAAG
 TGTCATGTTAAAAGACAGATGGAGGACCATGAAGAACTAAAACCTGATTTCTCAGACAGCGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205904 representing NM_003218
Red=Cloning site Green=Tags(s)

MAEDVSSAAPSPRGCADGRDADPTEEQMAETERNDEEQFECQELLECCVQVGAPEEEEEEEEDAGLVAEA
 EAVAAGWMLDFLCLSLCRAFRDGRSEDFRRTNSAEAIHGLSSLTACQLRTIYICQFLTRIAAGKTLDA
 QFENDERITPLESALMIWGSIEKEHDKLHEEIQNLIKIQAIIVCMENGNFKEAEVFERIFGDPNSHMPPF
 KSKLLMIISQKDTFHSFFQHFSYNHMEKIKSYVNYVLSEKSSFTLMKAAAKVVEKRRTRTITSQDKPSG
 NDVEMETEANLDRKRSHKNLFLSKLQHGTTQQDLNKKERRVGTQSTKTKKESRRATESRIPVSKSQPV
 TPEKRRARKRQAWLWEEDKNLRSVGRKYGEGNWSKILLHYKFNNRTSVMLKDRWRTMKKLLISSDSED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003218

ORF Size: 1257 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_003218.4](#)

RefSeq Size: 2626 bp

RefSeq ORF: 1260 bp

Locus ID: 7013

UniProt ID: [P54274](#)

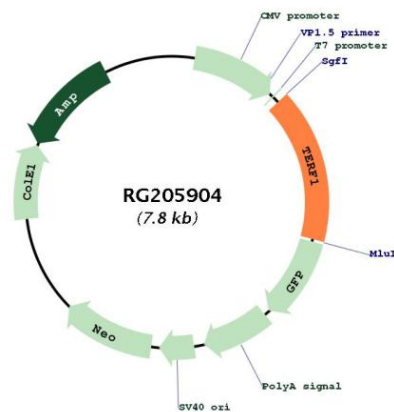
Cytogenetics: 8q21.11

Domains: myb_DNA-binding

Protein Families: Transcription Factors

Gene Summary: This gene encodes a telomere specific protein which is a component of the telomere nucleoprotein complex. This protein is present at telomeres throughout the cell cycle and functions as an inhibitor of telomerase, acting in cis to limit the elongation of individual chromosome ends. The protein structure contains a C-terminal Myb motif, a dimerization domain near its N-terminus and an acidic N-terminus. Two transcripts of this gene are alternatively spliced products. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG205904