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Product datasheet for SC116614

TRF2 (TERF2) (NM_005652) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRF2 (TERF2) (NM_005652) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRF2
Synonyms:	TRBF2; TRF2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC116614 sequence for NM_005652 edited (data generated by NextGen Sequencing)

ATGGCGGGAGGAGGCGGGAGTAGCGACGGCAGCGGGCGGGNAGCTGGCAGGCGGGCGTCC
CGCAGTAGCGGGCGGGCCCGGCGGGGGCGCCACGAGCCGGGGCTGGGGGGCCCGGCGGAG
CGCGGCGCGGGGGAGGCACGGCTGGAAGAGGCAGTCAATCGCTGGGTGCTCAAGTTCTAC
TTCCACGAGGCGCTGCGGGCCTTTCGGGGTAGCCGGTACGGGGACTTCAGACAGATCCGG
GACATCATGCAGGCTTTGCTTGTCAGGCCCTTGGGGAAGGAGCACACCGTGTCCCGATTG
CTGCGGGTTATGCAGTGTCTGTCGCGGATTGAAGAAGGGGAAAATTTAGACTGTTCCTTT
GATATGGAGGCTGAGCTCACACCACTGGAATCAGCTATCAATGTGCTGGAGATGATTAAA
ACGGAATTTACACTGACAGAAGCAGTGGTCGAATCCAGTAGAAAACTGGTCAAGGAAGCT
GCTGTCATTATTTGTATCAAAAACAAAGAATTTGAAAAGGCTTCAAAAATTTTGAAAAAA
CATATGTCCAAGGACCCCACAACTCAGAAGCTGAGAAATGATCTCCTGAATATTATTCGA
GAAAAGAACTTGGCCCATCCTGTTATCCAGAACTTTTCATATGAGACCTTCCAGCAGAAG
ATGCTGCGCTTCCTGGAGAGCCACCTGGATGACGCCGAGCCCTACCTCCTCACGATGGCC
AAAAAGGCTTTGAAATCTGAGTCCGCTGCCTCAAGTACAGGGAAGGAAGATAAACAGCCA
GCACCAGGGCCTGTGGAAAAGCCACCCAGAGAACCCGCAAGGCAGCTACGGAATCCTCCA
ACCACCATTGGAATGATGACTCTGAAAGCAGCTTTCAAGACTCTGTCTGGTGCACAGGAT
TCTGAGGCAGCCTTTGCAAAACTGGACCAGAAGGATCTGGTTCTTCCTACTCAAGCTCTC
CCAGCATCACCAGCCCTCAAAAACAAGAGACCCAGAAAAGATGAAAACGAAAGTTCAGCC
CCGGCTGACGGTGAGGGTGGCTCGGAACTGCAGCCCAAGAACAAGCGCATGACAATAAGC
AGATTGGTCTTGGAGGAGGACAGCCAGAGTACTGAGCCCAGCGCAGGCCTCAACTCCTCC
CAGGAGGCCGCTTCAGCGCCACCATCCAAGCCCACCGTTCTCAACCAACCCCTCCCTGGA
GAGAAGAATCCCAAAGTACCCAAAGGCAAGTGGAACAGCTCTAATGGGGTTGAAGAAAAG
GAGACTTGGGTGGAAGAGGATGAACTGTTTCAAGTTCAGGCANCACCAGATGAAGACAGT
ACAACCAATATAACAAAAAAGCAGAAGTGGACTGTAGAAGAAAGCGAGTGGGTCAAGGCT
GGAGTGCAGAAATATGGGGAAGGAAACTGGGCTGCCATTTCTAAAAATTACCCATTTGTT
AACCGAACAGCTGTGATGATTAAGGATCGCTGGCGGACCATGAAAAGACTTGGCATGAAC
TGA

Clone variation with respect to NM_005652.3
41 c=>n;1303 g=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005652 unedited
ATTTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCGGCCGGGAGGGC
GGGGAGGGCGCGCGGCGATCGGACACGATGGCGGGAGGAGGCGGGAGTAGCGACGGCAGC
GGGCGGGCAGCTGGCAGGCGGGCGTCCCGCAGTAGCGGGCGGGCCCGGCGGGGGCGCCAC
GAGCCGGGGCTGGGGGGCCCGGCGGAGCGCGGCGCGGGGGAGGCACGGCTGGAAGAGGCA
GTCAATCGCTGGGTGCTCAAGTTCTACTTCCACGAGGCGCTGCGGGCCTTTCGGGGTAGC
CGGTACGGGGACTTCAGACAGATCCGGGACATCATGCAGGCTTTGCTTGTCAGGCCCTTG
GGGAAGGAGCACACCGTGTCCCGATTGCTGCGGGTTATGCAGTGTCTGTCGCGGATTGAA
GAAGGGGAAAATTTAGACTGTTCCTTTGATATGGAGGCTGAGCTCACACCACTGGAATCA
GCTATCAATGTGCTGGAGATGATTAAAACGGAATTTACACTGACAGAAGCAGTGGTCGAA
TCCAGTAGAAAACTGGTCAAGGAAGCTGCTGTCATTATTTGTATCAAAAACAAAGAATTT
GAAAAGGCTTCAAAAATTTTGAAAAAACATATGTCCAAGGACCCCACAACTCAGAAGCTG
AGAAATGATCTCCTGAATATTATTCGAGAAAAGAACTTGGCCCATCCTGTTATCCAGAAC
TTTTTATATGAGACCTTCCAGCAGAAGATGCTGCGCTTCCTGGAGAGCCACCTGGATGAC
GCCGAGCCCTACCTCCTCACGATGGCCAAAAAGGCTTTGAAATCTGAGTCCGCTGCCTCA
AGTACGGGAANGGAGATAAACAGNCAGCACCAGGCCTGTGGAAAAGCCCCCAGAGAACCG
CCAGGCAGCTAACGGATCCTTCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005652 unedited
CCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGAGAGAACAAGACTTTAATG
AAGAATGCTACAAGTATGGACAATAATTAGTTCTCACCTTTTAAAAAAAGATACAGAAAA
CACTTTACTGAAATTTTTTGCTAAAAAGACAGTCTTTAAGGGTGTCCGGGAGAGACAGCA
AGCACAACACAGTACAAAAGGAGAAGGGAATGTTGAATTCCAGTGCAAGACACGAACACA
GCACAATTAGGGAATCAGGAGGAAGCAACCATTTCACAAAGAATGAAATTAGGCATTTAT
ATTCAATCGGATTTTTTTTAAGCTTTAAAAGTCCAGCATAAGGAAGGGAATTGGGAAAAG
AGGCAGGGGACAGGGGGCAGGGGATCAGGGAACTAATCTTATCTACAATCACCATTTTAC
CAAAAAACACACTGGTTCAACCACATGAGAAGTGGAGGATTAACCTGCCTACATAGCCCA
GCAGATGTTGACAGCAAATGCCAAGGCAGACAGGTCTAGGGTTGATGTCACGACTGGCTA
AAGAGTTTTTAAAGGGAATCTTATTCCACAAGGACTGGTCTGTCATCAACCTGNGTTCAT
AACAGACTAAGTTCCTTTGCATTTGCATCAGAAGGCCAGAACTTGACGTGGAACANAATT
ACTCCAAATAATACTCACATTGCTGGTTNTAACAGGTCATGGAGTCACAAGTGGCTCCTA
ATAGACTTCACCATTTCCTANGAGAAGGTTCTACAGATTACCAGGGATTTAAATTTAAGC
CAACCCACTAAGAANGGGAACGCTAATGATATTCTGGCACTGCACAAGCTGTGTGCCTGT
CATCTCTGCCAAGGACATGGGTTGGGACTGGNCTCTGCTTCCTACCTCCATGATCTCCAC
CGTGATGAAGTGGAATGGGACCCTCCCCAGTCGAAGGAGGTCGCCAAAATCTTATCCCAC
CCCACTCTTGAAGGACG

Restriction Sites: NotI-NotI

ACCN: NM_005652

Insert Size: 3000 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).

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_005652.2, NP_005643.1

RefSeq Size: 2909 bp

RefSeq ORF: 1503 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]