

## Recombinant Human TERF1, His-tagged

**Cat. No.** TERF1-30122TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human TRF1 with a 6x His and a proprietary tag; 665 amino acids, Predicted MWt 77.2 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	419 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	77.200kDa inclusive of tags
<b>Tissue specificity</b>	Highly expressed and ubiquitous. Isoform Pin2 predominates.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE

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<b>Storage buffer</b>	pH: 7.40 Constituent:99% PBS
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Contains 1 HTH myb-type DNA-binding domain.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TERF1 telomeric repeat binding factor (NIMA-interacting) 1 [ Homo sapiens ]
<b>Official Symbol</b>	TERF1
<b>Synonyms</b>	TERF1; telomeric repeat binding factor (NIMA-interacting) 1; TRBF1; telomeric repeat-binding factor 1; PIN2; TRF; TRF1;
<b>Gene ID</b>	7013
<b>mRNA Refseq</b>	NM_003218
<b>Protein Refseq</b>	NP_003209
<b>MIM</b>	600951
<b>Uniprot ID</b>	P54274
<b>Chromosome Location</b>	8q21.11
<b>Pathway</b>	Chromosome Maintenance, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Packaging Of Telomere

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Ends, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem;

**Function**

DNA bending activity; DNA binding; cysteine-type endopeptidase activator activity involved in apoptotic process; double-stranded telomeric DNA binding; microtubule binding;

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