

## Product datasheet for **RN215114**

### Terf2ip (NM\_001013143) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Terf2ip (NM\_001013143) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Terf2ip  
 Synonyms: MGC105533  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN215114 representing NM\_001013143  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGGTAATGGATCTGGGTAAAGATCCCAATGGGCCACCCACTCCTCCACTCTGTTTGTGAGAG  
 AAGACGGCAGCGCATGTCGTTTTACGTGCGGCCAGCTCGGCCAAGCGCCGGCTGTCAACGCTCATCCT  
 GCACGGCGGGCGGCATCTGTGTGGGTGCAGAAGCCCGGGCGGTGCTGTAGCCAGCCGGGGAGGCG  
 CTGGCCGAGGCTTCGGGGGACTTCACTCCACGCAGTACATCCTAGACTGCGTGGAGCGCAACGAGAAGC  
 TGGAACTGGAGGCCTATCGGCTGGGCTGACGGAGCAGGCGTCCGACCCTAAGCCCGGGGCTTCTCGCGA  
 GGGCTCCACGGAACCCGAGCCTCAGCCCCTGACCGGGCGCATTGCCTACACTGACGCAGACGATGTGGCC  
 ATCCTAACCTACGTAAAGGAAAAAGCCCGTTCGCCAGCTCAGTCACAGGCAATGCCTTGTGAAAGCGA  
 TGGAGAAGAGCTCGTACGCAGCACTCCTGGCAGTCGCTCAAGGACCGTACCTCAAGCACCTGCAGGG  
 CCAGGAGCACAAGTACCTGCTCGGAACGCTCCGGTCAGCCCGTCCCTCCAGAAGCTCAAACGGAAGGCG  
 GAGCAGGACCCGGAGGCTGCGGATAGCGGGGAGCCACAGAACAAGAGGACGCCAGACTTGCTGAAGAGG  
 AGTGTGTGAAGGGGAGACCAAGGAGAATGGAGAGGCAGACAACAAGCTATTTGAGGAAGCTACTCCGG  
 GTTGGGGGAAAGCCGTGGTGGATGAGAGCCCTGACTTTGAAATACACATAACCATGTGTGATGGTATCCA  
 CCCACACCTGAGGAAGATTGAGAAAACAGCCAGACGAGGAGGAAGAGGAACCAAAAGTTTCTACACAAG  
 AAGTGGGAACTGCCATTAAGATCATCCGGCAGCTAATGGAAAAGTTAACTTGGATCTCTCAACAGTTAC  
 ACAGGCCCTTGTGAAAAACAGTGGTGAAGTGGAGGCCACTTCTCTTTCTTAGAGTCTGGACGGAGACCT  
 GATGGTTTCCCAATTTGGTGCCGACAAGATGACTTAGATTTGCAAAAGGACGATGATGACACTAGAAATG  
 CACTGGTCAAAAAATATGGAGCTCAGAATGTTGCTCGGAGGATCGAATTCGAAAGAAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



<b>ACCN:</b>	NM_001013143
<b>Insert Size:</b>	1182 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001013143.1, NP_001013161.1</u>
<b>RefSeq Size:</b>	2165 bp
<b>RefSeq ORF:</b>	1182 bp
<b>Locus ID:</b>	307861
<b>UniProt ID:</b>	<u>Q5EAN7</u>
<b>Cytogenetics:</b>	19q12
<b>Gene Summary:</b>	Acts both as a regulator of telomere function and as a transcription regulator. Involved in the regulation of telomere length and protection as a component of the shelterin complex (telosome). In contrast to other components of the shelterin complex, it is dispensible for telomere capping and does not participate in the protection of telomeres against non-homologous end-joining (NHEJ)-mediated repair. Instead, it is required to negatively regulate telomere recombination and is essential for repressing homology-directed repair (HDR), which can affect telomere length. Does not bind DNA directly: recruited to telomeric double-stranded 5'-TTAGGG-3' repeats via its interaction with TERF2. Independently of its function in telomeres, also acts as a transcription regulator: recruited to extratelomeric 5'-TTAGGG-3' sites via its association with TERF2 or other factors, and regulates gene expression. When cytoplasmic, associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B signaling by promoting IKK-mediated phosphorylation of RELA/p65, leading to activate expression of NF-kappa-B target genes (By similarity).[UniProtKB/Swiss-Prot Function]