

## Product datasheet for MC218340

### Terf2ip (BC017641) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Terf2ip (BC017641) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Terf2ip  
 Synonyms: Rap1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >BC017641  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGAGGCGATGGATCTGGGTAAAGACCCCAATGGGCCCACTCACTCCTCCACTCTGTTCTGTGAGAG  
 AAGACGGCAGCGCATGTCGTTTTACGTGCGGCCAGCTCGGCCAAGCGCCGGCTGTCGACGCTCATCCT  
 GCACGGCGGGCGCACCGTGTGTCGGGTGCAGGAACCCGGAGCCGTGCTTCTCGCCAGCCCGGGGAGGCG  
 CTGGCCGAGGCTTCGGGGGACTTCACTCCACGCAGTACATCCTAGACTGCGTGGATCGCAACGAGAAGC  
 TGGACCTGGAGGCCTATCGGCTGGCCCTGACGGAGCAGGCGTCCGATCCGAAGCCCGGGGCTTCCACCGA  
 GGGCTCCACGGAACCGGAGCCGACGCCCTGACCGGGCGCATCGCTACACCGACGCGGAAGATGTGGCC  
 ATCCTGACCTACGTGAAGGAGAACGCCCGTTCCGCCAGCTCGGTACAGGCAATGCCTTGTGAAAGCGA  
 TGGAGAAGAGCTCGTACGCAGCACTCCTGGCAGTCGCTCAAGGACCGTACCTCAAGCACCTACGGGG  
 TCAGGAGCACAAGTACCTGCTCGGAACGCCCGGTACGCCGTCCTCCAGAAGCTCAAACGGAAGGCG  
 GAGCAGGACCCCGAGGCCGCGGATAGCGGAGAGCCACAGAACAAGAGAGCGCCAGACTTGCTGAGGAGG  
 AGTGTGTAAAGGAGAGATCAAGGAGAATGGAGAGGCAGACAAGCTGTTTGGAGGAGCCGCTCCGGA  
 GTTCGGAGAAGCCGTGGTGGATGAGAGCCCTGACTTTGAAATACATATAACGATGTGTGATGGTGATCCA  
 CCCACACCCGAGGAAGACTCAGAAAACAGCCAGACGAGGAGGAAGAAGAACAAAAGTTTCTACGCAAG  
 AAGTGGGAACTGCCATTAAGGTGATCCGGCAGCTAATGGAGAAGTTCAACTTGGATCTATCAACAGTTAC  
 ACAGGCCCTTGCTGAAGAACAGTGGTGGAGCTGGAGGCCACGTCCTCCTTCTAGAGTCGGGGCGGAGACCC  
 GACGGTTATCCCATTTGGTGCAGACAAGATGACTTAGATTTGCAGAAGGACGATGACGACACGAAAAATG  
 CACTGGTCAAAAAGTTTGGAGCTCAGAACGTTGCTCGGAGGATTGAATCCGAAAGAAATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



<b>ACCN:</b>	BC017641
<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><a href="#">BC017641</a></u> , <u><a href="#">AAH17641</a></u>
<b>RefSeq Size:</b>	2122 bp
<b>RefSeq ORF:</b>	1181 bp
<b>Locus ID:</b>	57321
<b>Cytogenetics:</b>	8 E1
<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.[UniProtKB/Swiss-Prot Function]