

## 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC017641 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCGGAGGCGATGGATCTGGGTAAAGACCCCAATGGGCCCACTCACTCCTCCACTCTGTTCTGTGAGAG  
AAGACGGCAGCGCATGTCGTTTTACGTGCGGCCAGCTCGGCCAAGCGCCGGCTGTCGACGCTCATCCT  
GCACGGCGGCGGCACCGTGTGTCGGGTGCAGGAACCCGGAGCCGTGCTTCTCGCCAGCCCGGGAGGCG  
CTGGCCGAGGCTTCGGGCGACTTCATCTCCACGCAGTACATCCTAGACTGCGTGGATCGCAACGAGAAGC  
TGGACCTGGAGGCTATCGGCTGGGCCTGACGGAGCAGGCGTCCGATCCGAAGCCCGGGGCTTCCACCGA  
GGGCTCCACGGAACCGGAGCCGACGCCCTGACCGGGCGCATCGCTACACCGACGCGGAAGATGTGGCC  
ATCCTGACCTACGTGAAGGAGAACGCCCCGTTCCGCCAGCTCGGTACAGGCAATGCCTTGTGAAAGCGA  
TGGAGAAGAGCTCGCTCACGCAGCACTCCTGGCAGTCGCTCAAGGACCGCTACCTCAAGCACCTACGGGG  
TCAGGAGCACAAGTACCTGCTCGGGAACGCCCCGGTCAGCCCGTCTCCAGAAGCTCAAACGGAAGGCG  
GAGCAGGACCCCGAGGCCGCGGATAGCGGAGAGCCACAGAACAAGAGAGCGCCAGACTTGCTGAGGAGG  
AGTGTGTGAAAGGAGAGATCAAGGAGAAATGGAGAGGCAGACAACAAGCTGTTGAGGAAGCCGCTCCGGA  
GTTCCGAGAAGCCGTGGTGGATGAGAGCCCTGACTTTGAAATACATATAACGATGTGTGATGGTATCCA  
CCCACACCCGAGGAAGACTCAGAAACACAGCCAGACGAGGAGGAAGAAGAACAAAAGTTTCTACGCAAG  
AAGTGGGAATGCCATTAAAGGTGATCCGGCAGCTAATGGAGAAGTTCAACTTGGATCTATCAACAGTTAC  
ACAGGCCCTTGCTGAAGAACAGTGGTGGAGCTGGAGGCCACGTCTCCTTCTTAGAGTCGGGCGGAGACCC  
GACGGTTATCCCATTTGGTGACAGACAAGATGACTTAGATTTGCAGAAGGACGATGACGACACGAAAAATG  
CACTGGTCAAAAAGTTTGGAGCTCAGAAGCTTGTCTCGGAGGATTGAATCCGAAAGAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA


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<b>Restriction Sites:</b>	Sgfl-Mlul
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">BC017641</a> , <a href="#">AAH17641</a>
<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]