

Product datasheet for **MC218517**

Zbtb48 (BC005515) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb48 (BC005515) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Zbtb48
Synonyms:	0610011D15Rik; AI327031; Hkr3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC005515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGGTTCCTTCGTGCAGCACAGCGTGAGGGTTCAGCAAGCAAGCAGCGGAGAAGGGCC
 AGTATTGCGACGCCACGCTGGACGTGGGGGCCTGGTGTCAAGGCGCACTGGAGTGCCTGGCGTGTG
 CAGCCATTTCTCCAGAGAATCTACGGTATGGCAGGGGGCAGCGTTGTCTCCAGCGGGCTTTGCT
 GAGATTTTGGCCTCCTGCTGGACTTTTTCTACACCGGCCACCTCGCCCTCACCTCAGGGAACAGGGATC
 AGGTACTCTTGGCAGCCAAAGAGTTGCGGGTGCCTGAGGCTGTGGAGCTATGTCAGAGCTTCCAGCCCCA
 AACCTCAGTGGGACAGGCACAGAGTGGACTGGTCAACCTGCCTCCAGGACGTGAAAAGCCACCTGAAG
 GAGCCGACAGACTGGATGAGGAGGAAGTTTTCAAGACTCTGAGCCTGGCCTCCGTGGATCAGGAGCCCA
 GAGACTGAGCAGCCCCAGCTGGGTACACCTGCTCAGAGCAGCAGCGCCTTCTCTGTGGAAACTCAC
 GCAGGCTTTGAAGCCTTCTCCTCAGAGGACAAAGAGTCTGAGGACTGCAAAGAGCCCCAAGGCCCTTC
 GAGGCTGGAGGTGCCCGCTGCAGGGCGAGAGCAATGAGTGGAAAGTGGTGGTCCAAGTGGAGGACGACA
 GGGACGGTGATTACGTATCTGAGCCTGAGACTGTGCTGACCAGAAGGAAGTCAAAAGTGATTAGAAAACC
 CTGTGCAGCCGAGCCAGCCCTGGGTGCGGGTCTCTCACAGCCGAGCCCACTGACAGCAGAAAAGGTGCA
 GCCGTTCCGGTCGAATGTCCCACATGTCACAAAAGTTCTCAGCAAATATTACCTGAAAGTCCACAACA
 GGAAACACACTGGGGAGAAAACCTTCGAGTGTCCCAAATGTGGGAAGTGTACTTCCGCAAGGAGAATCT
 CTTGGAACATGAAGCCAGGAATTGCATGAACCGCTCAGAACAGGTCTTACATGCTCCGTATGCCAGGAG
 ACCTTCCGACGGAGGATGGAGCTGCGCTTGACATGGTGTCTCACACAGGGGAGATGCCCTACAAGTGTT
 CCTCCTGCTCACAGCAGTTCATGCAGAAGAAAGACTTGACAGCCACATGATCAAGCTGCACGGAGCCCC
 TAAACCCACGCAGTAAGTGCCAGTCAGGGCTGGGGTCCGGTGGCTCTGGGACAGCTCAATCCTGTCTCT
 CACCTGGATGTGCTCCCTCTGCCTGTCTCACCCACCTGCAGTGCCCACTTGTGCCAAGTCTTCTGTGTC
 TAGGACGGAGCTACAGCTGCACGAGGCTTTAAGCATCGTGGAGAAAAGCTCTTTGTGTGTGAGGAATGC
 GGGCACCGGGCTCGAGCCGCAACGGGCTGCAGATGCACATCAAGGCCAAGCACAGGAATGAAAGGCCTT
 ATGTCTGTGAGTTCTGCAGCCATGCCTTACCCAGAAGGCCAACCTCAACATGCACCTGCGCACGCACAC
 CGGCGAGAAGCCTTCCAGTGCCACCTCTGTGGGAAGACCTTCCGCACCCAAGTTTGACAAGCACAAACC
 GCACCCACACGGGCGAGAGGCCTTTCAGCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC005515

Insert Size: 1644 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: [BC005515](#), [AAH05515](#)

RefSeq Size: 2418 bp

RefSeq ORF: 1643 bp

Locus ID: 100090

Cytogenetics: 4 E2

Gene Summary: Telomere-binding protein that acts as a regulator of telomere length. Directly binds the telomeric double-stranded 5'-TTAGGG-3' repeat. Preferentially binds to telomeres that have a low concentration of shelterin complex and acts as a regulator of telomere length by initiating telomere trimming, a process that prevents the accumulation of aberrantly long telomeres. Also acts as a transcription regulator that binds to promoter regions. Regulates expression of a small subset of genes, including MTFP1. Regulates expression the J and/or S elements in MHC II promoter. Acts as a negative regulator of cell proliferation by specifically activating expression of ARF, a tumor suppressor isoform of CDKN2A.[UniProtKB/Swiss-Prot Function]