

Product datasheet for **SC337202**

ZBTB48 (NM_001278647) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB48 (NM_001278647) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZBTB48
Synonyms:	HKR3; pp9964; TZAP; ZNF855
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001278647, the custom clone sequence may differ by one or more nucleotides

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ATGGACGGCTCCTTCGTCCAGCACAGTGTGAGGGTTCTGCAGGAGCTCAACAAGCAGCGGGAGAAGGGCC
AGTACTGCGACGCCACTCTGGACGTGGGGGCTGGTGTTTAAGGCACACTGGAGTGTCTTGCCTGCTG
CAGTCACTTTTCCAGAGCCTCTACGGGATGGCTCAGGGGGCAGTGTCTGCTCCTCCTGCTGGCTTCGCT
GAGATCTTTGGCCTCTTGTGGACTTTTTCTACACTGGTACCTCGCTCTCACCTCAGGGAACCGGGATC
AGGTGCTCCTGGCAGCCAGGGAGTTGCGAGTGCCAGAGGCCGTAGAGCTGTGCCAGAGCTTCAAGCCCAA
AACTTCAGTGGGACAGGCAGCAGGTGGCCAGAGTGGGCTGGGGCCCCCTGCCTCCCAGAATGTGAACAGC
CACGTC AAGGAGCCGGCAGGCTTGAAGAAGAGGAAGTTTCGAGGACTCTGGGTCTAGTCCCAGGGATC
AGGAGCCCAGAGGCAGTCATAGTCTCAGAGGCCCCAGCTCCATTCCCAGCTCAGAGTGAGGGCCCCCTC
CTCCTCTGTGGAAACTGAAGCAGGCCTTGAAGCCTTGTCCCCTTGAGGACAAGAAACCCGAGGACTGC
AAAGTGGCCCCAAGGCCCTTAGAGGCTGAAGGTGCCAGCTGCAGGGCGGCAGTAATGAGTGGGAAGTGG
TGTTCAAGTGGAGGATGATGGGGATGGCGATTACATGTCTGAGCCTGAGGCTGTGCTGACCAGGAGGAA
GTCAAATGTAATCCGAAAGCCCTGTGCAGCTGAGCCAGCCCTGAGCGCGGGCTCCCTAGCAGCTGAGCCT
GCTGAGAACAGAAAAGGTACAGCGGTGCCGGTTCGAATGCCCCACATGTCATAAAAAGTTCCTCAGCAAAT
ATTATCTAAAAGTCCACAACAGGAAACATACTGGGGAGAAACCCCTTGTAGTGTCCCAAATGTGGGAAGTG
TTACTTTCGGAAGGAGAACCCTCTGGAGCATGAAGCCCGAATTGCATGAACCGCTCGGAACAGGTCTTC
ACGTGCTCTGTGTGCCAGGAGACATTCGCCGAAGGATGGAGCTGCGGGTGCACATGGTGTCTCACACAG
GGGAGATGCCCTACAAGTGTTCCTCCTGCTCCCAGCAGTTCATGCAGAAGAAGGACTTGCAGAGCCACAT
GATCAAACCTCATGGAGCCCCAAGCCCCATGCATGCCACCTGTGCCAAGTGTCTCCTGTCTCGGACA
GAGTGCAGCTGCATGAAGCTTCAAGCACCGTGGTGAGAAGCTGTTTGTGTGTGAGGAGTGTGGGCACC
GGCCTCGAGCCGAATGGCCTGCAGATGCACATCAAGGCCAAGCACAGGAATGAGAGGCCACACGTATG
TGAGTTCTGCAGCCACGCCTTACCCAAAAGGCCAATCTCAACATGCACCTGCGCACACACAGGGTGAG
AAGCCCTTCCAGTGCCACCTCTGTGGAAAGACCTCCGAACCCAGCCAGCCTGGACAAGCACAACCCGCA
CCCACACCGGGAAAGGCCCTTTCAGTTGCGAGTCTGTGAACAGCGCTTCACTGAGAAGGGGCCCTCCT
GAGGCACGTGGCCAGCCGCATCAGGAGGGCCGGCCCCACTTCTGCCAGATATGCGGCAAGACCTTCAA
GCCGTGGAGCAACTGCGTGTGCACGTGACAGCGCACAAGGGGGTGAGGAAGTTTGTGACCCGAGTGTG
GCTACAAGTTTACCCGACAGGCCACCTCGGAGGCACATGGAGATCCACGACCGGTAGAGAACTCAA
CCCGCGCAGCGCAAGCTCCGCAACCTGATCATCGAGGACGAGAAGATGGTGGTGGTGGCGCTGCAGCCG
CCTGCAGAGCTGGAGGTGGGCTCGGCGGAGGTCAATTGTGGAGTCCCTGGCCCAGGGCGGCCCTGGCCTCCC
AGCTCCCCGCGCCAGAGACTGTGTGCAGAGGAGAGCTTACCGGCCAGGTGTCCTGGAGCCCTCCCTCAT
CATCACAGCTGCTGTCCCGAGGACTGTGACACATAG
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001278647

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: [NM_001278647.1](#), [NP_001265576.1](#)

RefSeq Size: 2278 bp

RefSeq ORF: 2067 bp

Locus ID: 3104

UniProt ID: [P10074](#)

Cytogenetics: 1p36.31

Protein Families: Transcription Factors

Gene Summary: Telomere-binding protein that acts as a regulator of telomere length (PubMed:28500257, PubMed:28082411). Directly binds the telomeric double-stranded 5'-TTAGGG-3' repeat (PubMed:28500257, PubMed:28082411). 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 (PubMed:28082411). Also acts as a transcription regulator that binds to promoter regions (PubMed:7969177, PubMed:24382891, PubMed:28500257). Regulates expression of a small subset of genes, including MTFP1 (PubMed:28500257). Regulates expression the J and/or S elements in MHC II promoter (PubMed:7969177). Acts as a negative regulator of cell proliferation by specifically activating expression of ARF, a tumor suppressor isoform of CDKN2A (PubMed:24382891).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.