

Product datasheet for **SC116763**

ZBTB48 (NM_005341) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB48 (NM_005341) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZBTB48
Synonyms:	HKR3; pp9964; TZAP; ZNF855
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116763 sequence for NM_005341 edited (data generated by NextGen Sequencing)

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ATGGACGGCTCCTTCGTCCAGCACAGTGTGAGGGTTCTGCAGGAGCTCAACAAGCAGCGG
GAGAAGGGCCAGTACTGCGACGCCACTCTGGACGTGGGGGGCCTGGTGTTTAAGGCACAC
TGGAGTGCCTTGCCCTGCTGCAGTCACTTTTTCCAGAGCCTCTACGGGGATGGCTCAGGG
GGCAGTGTGCTCCTCCCTGCTGGCTTCGCTGAGATCTTTGGCCTCTTGTGGACTTTTTTC
TACACTGGTCACCTCGCTCTCACCTCAGGGAACCGGGATCAGGTGCTCCTGGCAGCCAGG
GAGTTGCGAGTGGCAGAGGCCGTAGAGCTGTGCCAGAGCTTCAAGCCCAAACCTTCAGTG
GGACAGGCAGCAGGTGGCCAGAGTGGGGTGGGGCCCCCTGCCTCCCAGAATGTGAACAGC
CACGTCAAGGAGCCGGCAGGCTTGAAGAAGAGGAAGTTTCGAGGACTCTGGGTCTAGTC
CCCAGGGATCAGGAGCCAGAGGCAGTCATAGTCTCAGAGGCCCCAGCTCCATTCCCCA
GCTCAGAGTGAGGGCCCCCTCCCTCTGTGGGAACTGAAGCAGGCCTTGAAGCCTTGT
CCCCTTGAGGACAAGAAACCCGAGGACTGCAAAGTGCCCCAAGGCCCTTAGAGGCTGAA
GGTGCCACAGTGCAGGGCGCAGTAATGAGTGGGAAGTGGTGGTTCAAGTGGAGGATGAT
GGGGATGGCGATTACATGTCTGAGCCTGAGGCTGTGCTGACCAGGAGGAAGTCAAATGTA
ATCCGAAAGCCCTGTGCAGCTGAGCCAGCCCTGAGCGCGGGCTCCCTAGCAGCTGAGCCT
GCTGAGAACAGAAAAGGTACAGCGGTGCCGGTGAATGCCCCACATGTCATAAAAAGTTC
CTCAGCAAATATTATCTAAAAGTCCACAACAGGAAACATACTGGGGAGAAAACCTTTGAG
TGTCCCAAATGTGGGAAGTGTACTTTTCGGAAGGAGAACCTCCTGGAGCATGAAGCCCGG
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CGAAGGATGGAGTGCAGGCGGCATGCGTGTCTCACACAGGGGAGATGCCCTACAAGTGT
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GCCGTGGAGCAACTGCGTGTGCAGTGCAGCGGACAAGGGGGTGAAGGAGTTTGTAGTGC
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GAGAAGATGGTGGTGGTGGCGCTGCAGCCGCTGCAGAGCTGGAGGTGGGCTCGGCGGAG
GTCATTGTGGAGTCCCTGGCCCAGGGCGGCTGGCCTCCAGCTCCCCGGCCAGAGACTG
TGTGCAGAGGAGAGCTTACCCGGCCAGGTGTCCTGGAGCCCTCCCTCATCATCAGACT
GCTGTCCCCGAGGACTGTGACACATAG
    
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Clone variation with respect to NM_005341.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005341 unedited
 AGATTTTGTATACGACTACTATAGGCGGCNCGGAATTCGCACGAGGGAGTCTCCGCACT
 GTCGGCGGGGTACGCATAGCCGGGCACTAGGAGCTTTCTCTTGCATACCCCTCGCTTAGGC
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 CACAGTGTGAGGGTTCTGCAGGAGCTCAACAAGCAGCGGGAGAAGGGCCAGTACTGCGAC
 GCCACTCTGGACGTGGGGGGCCTGGTGTTAAGGCACACTGGAGTGTCTTGCCTGCTGC
 AGTCACTTTTTCCAGAGCCTCTACGGGGATGGCTCAGGGGGCAGTGTCTGCTCCCTCCT
 GGCTTCGCTGAGATCTTTGGCCTCTTGTGGACTTTTTCTACACTGGTCACCTCGCTCTC
 ACCTCAGGGAACCGGGATCAGGTGCTCCTGGCAGCCAGGGAGTTGCGAGTGCCAGAGGCC
 GTAGAGCTGTGCCAGAGCTTCAAGCCAAAACCTCAGTGGGACAGGCAGCAGGTGGCCAG
 AGTGGGCTGGGGCCCCCTGCCTCCAGAATGTGAACAGCCACGTCAAGGAGCCGGCAGG
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 CCGAGACTGCAAAGTGCCCCCAAGCCCTAAGGCTCTGAGGTGCCACTGCAGCGCATATG
 TGNAAAAAANGGGTAATGAGAGAAAANNANNNNNNNNNGAAATNNTNNNNNACNNA
 GAGGTTGTCTCCAAGAGGAATTAATGTTATCCAAAACCTGTCAATGACCACCTTTAAC
 GGCTCTACACTAACTGCTGAACANAAGGACCCCGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005341 unedited
 NAATCNTTGNACCGCGCCGAATTCTANGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTGT
 CCAAAGCCACTCGGTTTATTGAGGGTGGGGCCAAGTGGGCTCTGGTGGCCAGAATGGGC
 TATGTGTACAGTCTCGGGACAGCAGCTGTGATGATGAGGGAGGGCTCCAGGACACCT
 GGGCCGGTGAAGCTCTCCTCTGCACACAGTCTCTGGCCGGGGAGCTGGGAGGCCAGGCCG
 CCCTGGGCCAGGGACTCCACAATGACCTCCGCCGAGCCACCTCCAGCTCTGCAGGCGGC
 TGCAGCGCCACCACCACCATCTTCTCGTCTCGATGATCAGGTTGCGGAGCTTGCCTGC
 CGCGGGTTGTAGTTCTCTACCCGGTCTGGATCTCCATGTGCCTCCGAGGTGGGCTGT
 CGGGTAACTTGTAGCCACACTCGGTGCACTCAAATTCCTCACCCCTTGTGCCGTCTG
 ACGTGCACACGCAGTTGCTCCACGGCTTGAAGTCTTGCCGCATATCTGGCAGAAGTG
 GGCCGGCCCTCTGATGGCGGCTGGCCACGTGCCTCAGGAGGGGGCCCTTCTCAGTGAAG
 CGCTGTTACAGAACTCGCAACTGAAGGGCCTTTCCCGGTGTGGGTGCCGTTGTGCTT
 GCCCAGGCTGCCTTTGGGGTCCGAAGGGCCTTGCCCCGAGGTGGCACCTGGAAGGGCCT
 CTCACCCGGGGGCGTGCGCCAGTGCCTGTCTGAGATCGCCCTTTTGGGTGAAGGCCGT
 GCTGCCAAAATCCATCCGCGGGGCTCCCCCTTCTGGGCTTGGCCTCCAATGGCCCTCT
 CCAGGCCATTCCGTTTGGGCCCGTGGCCACCTTTTAACCCAAACACTTCTTCCCG
 TGCCTTGACCCTTATCCACTGCACCCTTCCAG

Restriction Sites:

NotI-NotI

ACCN:

NM_005341

Insert Size:

2400 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: [NM_005341.1](#), [NP_005332.1](#)

RefSeq Size: 2289 bp

RefSeq ORF: 2067 bp

Locus ID: 3104

UniProt ID: [P10074](#)

Cytogenetics: 1p36.31

Domains: BTB, zf-C2H2

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 (1) represents the longest transcript. 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.