

Product datasheet for **SC105989**

ZBTB48 (AF318381) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB48 (AF318381) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZBTB48
Synonyms:	HKR3; pp9964; ZNF855
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AF318381, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCTGCGGGTGCACATGGTGTCTCACACAGGGGAGATGCCCTACAAGGTCAGGCTTGGCCTGTCTC  
CAGGGCCAGGGTTGGGTGGCCCCAGGATCCTTCCTGCTGAGCCCTTTACGTGGGGTGTGTGAGGCACCT  
CCCTCACAGTAGCTGTCAGGGAGCCTGCCTCCCTGCCTCCCTGCCTTTCCAGTGCCCCCTTATCTAGG  
CAAGGGCTACTGTCTGCAGCCTCACCTCCAAGGTCCTTATTAGGCCCTTGTTCCTTTCCATGGAGGACAG  
GCTTGGCATCCTCTGGGCAGCTGAGCCCTGAGGCCCTCCTTGCACCATCCTTCACACCAGATCAGGGGT  
CCTCCCAGAATCATCTCACCGGGGCCTCCCTCTAGTTCCTGCCCTATAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AF318381 unedited CAGATTTTGTATACGACTCATATAGGCGGCCGGAATTCGGCACGAGGGAGAGATGGGAA ACCCTCTCAGCCCCCCCACCCCTGTGGCTTCTCCTGGCAGGAAACATACTGGGGAGAAAC CCTTTGAGTGTCCAAATGTGGGAAGTGTACTTTGCGAAGGAGAACCTCCTGGAGCATG AAGCCCGAATTGCATGAACCGCTCGGAACAGGTACTTGGGAGCTGGCCAGGTAATTGT GGGCAGGGCACACTGGCCTCTCTGTCTTCGTGCCATCCGGGAAGGGCCCCAGGAGACTGT CTGAGAGGGGTACTGTAACCTCAGGAAAGCTGTGGGGTCTTGGATGTCATGAGGTCCAT GCCCTGGTACAGGTGGGACACAGGTCTGAGGGCGGAAGGGACAGGCATAGGAGGGACT CTGTGGGAGGCATTTGGGGTTGGCTTTCCTAGGCCCTGGCCACCTCCACCTTGCTTTT GGAGAAGGGGAGCCGCTACAGGGGATGGCAGCTGGGAAAGGCCCCCTGGCCACCCCCAGC AACCCCACTGCTGGCTTCTGTGTGAGGGCCCGCCGAAACCCAGGCCACTCTTCTAGAG GCCTGTCAGCAGCCACTAGGGCCAGGACTGTGGGTGAGGCCACTCGACCCCTGCCCCCA GTCTGTCTGGCCTGAGAGGGCCTGGTGTGCGGTGGCTTGCAGCACTCAGTGATGGTCA GGCCAGGCAGGTTATGTGTTGNCCTCTNCCACCCTTAGCGTCCCACCCTCCCAGGCAGA CTTTCCAGCAGCAAGCGGAAGCCCGGGCAGAGGCTGCTGTCATANGCAGAAGCCCCCGC TGATGCCGGCCCTGCTTGCCCTACACTGCCAGGTCTCACGTGCTCTGTGTGCCANGAGA CATTNCGNCGAAGATGNAGCTGCGGNTGCACATGGTGTCTACACAGGGGAGATGCCCTAC ANNGTGAGCTTGNCTGTCTCAGGCCAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AF318381 unedited ATTATGNACCGCGCCGAATCTANGATCGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTGAAAATCCCAAACCCACCGTTTATTGAGGGGTGGGGCCAAAT GGGCTCTGGTGGCCCAAATGGGCTATTTGTCAACATCCTCGGGGACAACAACCTTTGATGA TGAAGGAGGGCTCCAGGACACCTGGGCCGTGAAACTCTCTTTGCACACAATCTTTGGC CGGGAACTGGGAGGCCAAGCCCCCTGGGCCAAGGACTCCACAATGACCTCCGCCGAAC CCACCTCCAGCTTTGAGGCGGGTGCAGCGCCACCACCACCATCTTTTCGTCTCGATGA TCAAGTTGCGGAACTTGCCTGCCCCGGTTGTAATTCTACCCGGGCGTGGATCTCCA TGTGCCTCCCCAAGTGGGCTGGCGGGGAAGGTGAGCTAAAACCTTTGGGGATCCTAAG GTAGGGGAAAGGGCCCAAGCCCTGGCCTAACTGTGGGTAAACTGTAGCCACACTCGGT GCACCAAACCTTCTCACCCCTTGTGCGTCTGACGTGCCACGCAATTGCTCCACGGCT GCAAGAAGGAGAACACCGTGGGGGATCATGCANGAGCCCCGGGACCCTCGAGGAAACCCA ACANGAAGTTGGGACAAGCACCAAGGGGAGGGACCAAGTTGTTTACAAGTGCTGCAAAGCC CTGCCAAGCTCTCCAGTGCACCCCAAGGGTACTACTGGACAGGACACCCCTGTCTTCCAA GCAGGGCCACTCTAACTCTACCATGTGGGGCAACAAAGAAGTTACAAGCCAAAAAGGGA CGTTTCTCCTAAAAACCTCCAATCGGATGAGCCAGGAATGCTTTTCCAGGCCCCCCCA GTACCTTTTAAGGCTGCCGCAATATTGGCAAATGGGGGCCCGCCTCCGGATGGCGCTC</p>
Restriction Sites:	NotI-NotI
ACCN:	AF318381
Insert Size:	2800 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: [AF318381.1](#), [AAL55888.1](#)

RefSeq Size: 2479 bp

RefSeq ORF: 399 bp

Locus ID: 3104

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]