

## Product datasheet for **SC322351**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322351  
 CCGACGCGTGGGCTCTTGCATACCTCGCTTAGGCTGGCCGGGTGTCACCTTCTGCCTCC  
 CTGCCCTCCAGACCATGGACGGCTCCTTCGTCCAGCACAGTGTGAGGGTTCTGCAGGAGC  
 TCAACAAGCAGCGGGAGAAGGGCCAGTACTGCGACGCCACTCTGGACGTGGGGGGCTGG  
 TGTTTAAGGCACACTGGAGTGCCTTGCCTGCTGCAGTCACTTTTCCAGAGCCTCTACG  
 GGGATGGCTCAGGGGGCAGTGTGCTCCTCCCTGCTGGCTTCGCTGAGATCTTTGGCCTCT  
 TGTTGGACTTTTCTACACTGGTCACCTCGCTCACCTCAGGGAACCGGGATCAGGTGC  
 TCCTGGCAGCCAGGGAGTTGCGAGTGCCAGAGGCCGTAGAGCTGTGCCAGAGCTTCAAGC  
 CCAAAACTTCAGTGGGACAGGCAGCAGGTGGCCAGAGTGGGTGGGGCCCCCTGCCTCCC  
 AGAATGTGAACAGCCACGTCAAGGAGCCGGCAGGCTTGAAGAAGAGGAAGTTTCGAGGA  
 CTCTGGGTCTAGTCCCCAGGGATCAGGAGCCCAGAGGCAGTCATAGTCTCAGAGGCCCC  
 AGCTCCATTCCCCAGCTCAGAGTGAGGGCCCCCTCCTCCTCTGTGGAACTGAAGCAGG  
 CCTTGAAGCCTTGTCCCCTTGGAGACAAGAAACCCGAGGACTGCAAAGTGCCCCCAAGGC  
 CCTTAGAGGCTGAAGGTGCCAGCTGCAGGGCGCAGTAATGAGTGGGAAGTGGTGGTTC  
 AAGTGGAGGATGATGGGGATGGCGATTACATGTCTGAGCCTGAGGCTGTGCTGACCAGGA  
 GGAAGTCAAATGTAATCCGAAAGCCCTGTGCAGCTGAGCCAGCCCTGAGCGCGGGCTCCC  
 TAGCAGCTGAGCCTGCTGAGAACAGAAAAGGTACAGCGGTGCCGGTGAATGCCCCACAT  
 GTCATAAAAAGTTCTCAGCAAATATTATCTAAAAGTCCACAACAGGAAACATACTGGGG  
 AGAAACCCCTTGTAGTGTCCCAAATGTGGGAAGTGTACTTTTGGGAAGGAGAACCTCCTGG  
 AGCATGAAGCCCGGAATTGCATGAACCGCTCGGAACAGGTCTTACGTGCTCTGTGTGCC  
 AGGAGACATTCGCCGAAGGATGGAGCTGCGGGTGACATGGTGTCTCACACAGGGGAGA  
 TGCCCTACAAGTGTCTCCTGCTCCAGCAGTTCATGCAGAAGAAGACTTGCAGAGCC  
 ACATGATCAAACCTCATGGAGCCCCCAAGCCCCATGCATGCCCCACCTGTGCCAAGTGCT  
 TCCTGTCTCGGACAGAGCTGCAGCTGCATGAAGCTTTCAAGCACCGTGGTGAAGACTGT  
 TTGTGTGTGAGGAGTGTGGGCACCGGGCTCGAGCCGGAATGGCCTGCAGATGCACATCA  
 AGGCCAAGCACAGGAATGAGAGGCCACACGTATGTGAGTTCTGCAGCCACGCCTTCAACC  
 AAAAGGCCAATCTCAACATGCACCTGCGCACACACAGGGTGAGAAGCCCTTCCAGTGCC  
 ACCTCTGTGGCAAGACCTTCCGAACCAAGCCAGCCTGGACAAGCACAACCGCACCCACA  
 CCGGGGAAAGGCCCTTCAGTTGCGAGTTCTGTGAACAGCGCTTCACTGAGAAGGGGCCCC  
 TCCTGAGGCACGTGGCCAGCCGCATCAGGAGGGCCGGCCCCACTTCTGCCAGATATGCC  
 GCAAGACCTTCAAAGCCGTGGAGCAACTGCGTGTGCACGTCAGACGGCACAAGGGGTGA  
 GGAAGTTTGTAGTGCACCGAGTGTGGCTACAAGTTTACCCGACAGGCCACCTGCGGAGGC  
 ACATGGAGATCCACGACCGGATAGAGAACTACAACCCGCGGCAGCGCAAGCTCCGCAACC  
 TGATCATCGAGGACGAGAAGATGGTGGTGGTGGCGCTGCAGCCGCTGCAGAGCTGGAGG  
 TGGGCTCGGGGAGGTCATTGTGGAGTCCCTGGCCAGGGCGGCCTGGCCTCCCAGCTCC  
 CCGGCCAGAGACTGTGTGCAGAGGAGAGCTTACCAGGCCAGGTGTCTGGAGCCCTCCC  
 TCATCATCACAGCTGCTGTCCCCGAGGACTGTGACACATAGCCCACTCTGGCCACCAGAG  
 CCCACTTGGCCCCACCCCTCAATAAACCGTGTGGCTTTGGACTCTCGTAAAAAAAAAAAA  
 AA  
 AAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005341

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>RefSeq:</b>	<a href="#">NM_005341.1</a> , <a href="#">NP_005332.1</a>
<b>RefSeq Size:</b>	2289 bp
<b>RefSeq ORF:</b>	2067 bp
<b>Locus ID:</b>	3104
<b>UniProt ID:</b>	<a href="#">P10074</a>
<b>Cytogenetics:</b>	1p36.31
<b>Domains:</b>	BTB, zf-C2H2
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>