

## Product datasheet for **SC201277**

### **ZBTB48 (NM\_005341) Human 3' UTR Clone**

#### Product data:

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Type:</b>             | 3' UTR Clones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Symbol:</b>                   | ZBTB48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms:</b>                 | HKR3; pp9964; TZAP; ZNF855                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Mammalian Cell Selection:</b> | Neomycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Vector:</b>                   | pMirTarget (PSI00062)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ACCN:</b>                     | NM_005341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Insert Size:</b>              | 98 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Insert Sequence:</b>          | <p>&gt;SC201277 3'UTR clone of NM_005341<br/>The sequence shown below is from the reference sequence of NM_005341. The complete sequence of this clone may contain minor differences, such as SNPs.<br/>Blue=Stop Codon Red=Cloning site</p> <pre> GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC GCTGCTGTCCCGAGGACTGTGACACATAGCCCATTTCTGGCCACCAGAGCCCACTTGGCCCCACCCCTC AATAAACCGTGTGGCTTTGGACTCTCGTA ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG </pre> |
| <b>Restriction Sites:</b>        | SgfI-MluI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>OTI Disclaimer:</b>           | Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).                                                                                                                                                                                                                                                                                       |
| <b>Components:</b>               | The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Note:</b>                     | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



**RefSeq:** NM\_005341.4

**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]

**Locus ID:** 3104

**MW:** 3.3