

Product datasheet for **MR224885**

Zbtb48 (NM_133879) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb48 (NM_133879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zbtb48
Synonyms:	0610011D15Rik; AI327031; Hkr3; TZAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR224885 representing NM_133879
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGGTTCCTTCGTGCAGCACAGCGTGAGGGTTCTGCAGAACTCAACAAGCAGCGGAGAAGGGCC
 AGTATTGCGACGCCACACTGGACGTGGGGGCCTGGTGTCAAGGCGCACTGGAGTGCCTGGCGTGTG
 CAGCCATTTCTCCAGAGAATCTACGGGATGGCACAGGGGGCAGCGTTGTCTCCAGCGGGCTTTGCT
 GAGATTTTGGCCTCCTGCTGGACTTTTTCTACACTGGCCACCTCGCCCTCACCTCAGGGAACAGGGATC
 AGGTACTCTTGGCAGCCAAAGAGTTGAGGGTGCCTGAGGCTGTGGAGCTATGTCAGAGCTTCCAGCCCCA
 AACCTCAGTGGGACAGGCACAGAGTGGACTGGTCAACCTGCCTCCAGGACGTGAAAAGCCACCTGAAG
 GAGCCGACAGACTTGGATGAGGAGGAAGTTTTCAGGACTCTGAGCCTGGCCTCCGTGGATCAGGAGCCCA
 GAGACTGAGCAGCCCCAGCTGGGTACACCTGCTCAGAGCACCAGGCCCTTCTCTGTGGAAACTCAC
 GCAGGCTTTGAAGCCTTCTCCCTCAGAGGACAAAGAGTCTGAGGACTGCAAAGAGCCCCAAGGCCCTTC
 GAGGCTGGAGGTGCCCGCTGCAGGGCGAGAGCAATGAGTGGGAAGTGGTGGTCCAAGTGGAGGACGACA
 GGGACGGTGATTACGTATCTGAGCCTGAGACTGTGCTAACCAAGGAAGTCAAAAGTGATTAGAAAACC
 CTGTGCAGCCGAGCCAGCCCTGGGTGCGGGTCTCTCACAGCCGAGCCCACTGACAGCAGAAAAGGTGCA
 GCCGTTCCGGTCGAATGTCCACATGTCACAAAAGTTCTCAGCAAATATTACCTGAAAGTCCACAACA
 GGAAACACACTGGGGAGAAAACCTTCGAGTGTCCCAAATGTGGGAAGTGTACTTCCGCAAGGAGAACTC
 CTTGGAACATGAAGCCAGGAATTGCATGAACCGCTCAGAACAGGTCTTACATGCTCCGTATGCCAGGAG
 ACCTTCCGACGGAGGATGGAGCTGCGCTGCACATGGTGTCTCACACAGGGGAGATGCCCTACAAGTGT
 CCTCTGCTCCCAGCAGTTCATGCAGAAGAAAGACTTGCAGAGCCACATGATCAAGCTGCACGGAGCCCC
 TAAACCCACGCATGCCCACTTGTGCCAAGTGCTTCTGTCTAGGACGGAGCTACAGCTGCACGAGGCT
 TTTAAGCATCGTGGAGAAAAGCTCTTTGTGTGTGAGGAATGCGGGCACCGGGCCTCGAGCCGCAACGGAC
 TGCAGATGCACATCAAGGCCAAGCACAGGAATGAAAGGCCTTATGTCTGTGAGTTCTGCAGCCATGCCTT
 CACCCAGAAGGCCAACCTCAACATGCACCTGCGCACACACACCGGCGAGAAGCCTTCCAGTGCCACCTC
 TGTGGGAAGACCTTCCGACCCAAGCCAGTTGGACAAGCACAACCGCACCCACACGGGCGAGAGGCCTT
 TCAGCTGTGAATTCTGTGAGCAGCGCTTCACTGAGAAGGGCCCCCTTCTGAGGCATGTGGCCAGCCGCCA
 TCAAGAGGGCAGGCCCACTTCTGCCAGATCTGTGGCAAGACCTTCAAAGCTGTGGAACAGTTACGAGTG
 CACGTGAGGCGACACAAAGGTGTGAGAAAGTTCGAGTGCACCGAGTGTGGCTACAAGTTCACGGCGCAGG
 CTCACCTGCGGAGGCACATGGAGATCCACGACAGAGTGGAGAACTACAATCCCCGGCAGCGCAAGCTCCG
 GAACCTCATCATTGAGGATGAGAAGATGGTGGTCTCCAGCCCCCTGCAGACCTGGAGGTGGGC
 TCTGCTGAGGTCAATTGTGGAGTCCCTGACCCAGGGTGGCCTTGCCTCCCAACTCCCTAGCCAGAGACTGT
 GTTCAGAGGAGAGCTTTGCTAGCCCTGGCGTCTGGAGCCCTCTCTCATCATCACCGCTGCTTCCCGA
 GGACTGTGACACG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224885 representing NM_133879
Red=Cloning site Green=Tags(s)

```
MDGSFVQHsvrvlqelnkqrekqyCDATLDVGGLVFKAHWSVLACCSHFFQRIYDGTGGSVVLPAGFA
EIFGLLLDFFYTGHLALTSGNRDQVLLAAKELRVPEAVELCQSFQPQTSVGQAQSGLGQPASQDVKSHLK
EPTDLDEEEVFRTLASLAVDQEPDRDEQPQLGTPAQSTTAFLCGKLTQALKPSPSEDKESDCKEPPRPF
EAGGAPLQGESNEWEVVVQVEDDRDGDYVSEPETVLTRRKSKVIRKPCAEPALGAGSLTAEPTDSRKGA
AVPVECP TCHKKFLSKYYLKVHNRKHTGEKPFCEPKCGKCYFRKENLLEHEARNCMNRSEQVFTCSVCQE
TFRRRMELRLHMVSHTGEMPYKCSSCSQFMQKDLQSHMIKLGAPKPHACPTCAKCFLSRTELQLHEA
FKHRGEKLFVCEECEGHRASSRNLQMHIKAKHRNERPYVCEFCSHAFTQKANLNMHLRHTHTGEKPFQCHL
CGKTFRTQASLDKHNRTHTGERPFCEQRFTEKGPLL RHVASRHQGRPHFCQICGKTFKAVEQLRV
HVRRHKGVRKFECTECGYKFTRQAHLRRHMEIHDRVENYNPRQRKLRNLIIEDEKMVVVALQPPADLEVG
SAEVIVESLTQGGLASQLPSQRLCSEESFASPGVLEPSLIITAAPVEDCDT
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_133879

ORF Size: 2043 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_133879.3](#)

RefSeq Size: 2226 bp

RefSeq ORF: 2046 bp

Locus ID: 100090

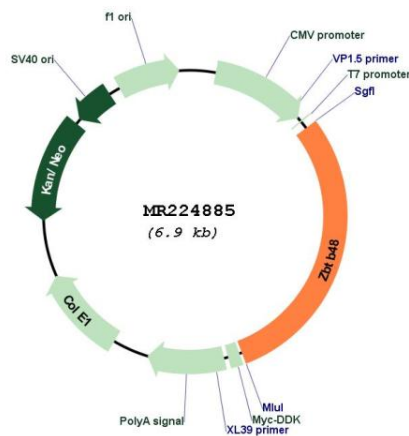
UniProt ID: [Q1H9T6](#)

Cytogenetics: 4 E2

MW: 77.3 kDa

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

Product images:



Circular map for MR224885