

## Product datasheet for MR213663

### Zbtb4 (NM\_029348) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb4 (NM_029348) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zbtb4
Synonyms:	2310026P19Rik; 9230111I22Rik; mKIAA1538
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR213663 representing NM_029348 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACCCCTGCAGAGGTGACGGACCCATCCCATGCCCCAGCTGTCCTGCATCAGCTCAATGAGCAGC  
GGCTCCGTGGCCTCTTCTGTGACGTACCCTCATAGCTGGAGACACCAAGTTCCTGTCCACGCAGTGT  
CCTGGCCGCTCTAGTCCCTTCTCAGAGAAGCCCTACTAGCTTCAGCCCCACTGCCCTTCCACCAGTT  
ACTGGCGGCTCAGCCCCAGCCCCGAACCACCACAGTGCCTCCTTTCGTCTCCTCTCCCCCTCCAG  
CCTCTCCTCACTTTCATCTCCTCCCCGGGTGCTAGAGCTGCCCGGGTCCAGCAGCTGCCTTCTCCGA  
TGTCTCAACTCATCTATAGTCCCGGCTTGCACTCCCTGGCGGTGGTGGGGATGGGGCAGCTGTGGCA  
GAGATTGGAGCTCTGGCCGGAGGCTGGGTATCTCCCGTCTACAGGGCCTGGGGGAAGGAGGTGATACTT  
GGGTACCACCTGCCCAACTTCCATGGTCACCTCAGATCCTACTGAGGATGGTTTGGGGCAGGGCCTAG  
AACAGATGGAGAGTGGGTGGGTGACAAAGCTGAGGCCCTGACTCCTGACTCCCAGCCCCGGCGGCCCTT  
CCTTGGCCTCGATGTGAAAAAGCTTATCCATCCCAAGCGACTACAGACCCACGAGGCTCAGTGTGCAG  
GAGGGTCCAACACTCGGGGTCTGCAGGGCTGGGGCTGGAGTCTCTGGCTCTGGGGTCTGCAGGAGT  
GGATGCCTCTGCCCTGCCACAACCAGTGGGCTTACAGATGGCCCTGAGCATGTGGTGAAGTTGTGGGC  
GGCCACGTGCTCTATGTGTGTGCGGCTGTGAGCGTTCCTACGTGACCCTGTCCAGCCTGAAGCGGCACA  
GCAATGTACACTCGTGGCGGAGGAAGTACCCCTGCCGCTACTGTGAGAAGGTGTTTGGCCTGGCTGAGTA  
CCGCACCAAGCACGAGGTGTGGCACACTGGGGAGCGCAGGTACCAAGTGCATCTTCTGCTGGGACACCTTT  
GTCACCTATTATAACCTGAAGACCCACCAGCGAGCCTTCCATGGCATTAGCCCTGGCCTCTAGCCAGTG  
AGAAGACACCCAATGGAGGCTACAAACCCAGGCTTAATACCCTCAAGCTGTACCGCTGCTCCCTATGCG  
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ACACCGGCCCGCGGCAATGCCAGCCAGCCCCAACCCCTACCCCAACCGCCAGAGCCTGGTCTCTC  
CCCCCTGTGCATCACCTTTGCTCATCCGGCTCCCTCTGTATTGTCCACGGGAGCAGTAGTAGTGGTGC  
AGCCGGGGCGGACCAGCCGGCACAGGAGGTCCCAAGCTGCCTCAGTCATCACTATACGACTCCCCCA



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AGACCCCCAAGAAACGAGAGTACCCACCTCCTCCCCCTGAGCCTACAGCAACACCCACCAGCCAGCCT  
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 TCTCCCTGCCAGTTTCCCTAAGGGAATAGGGGAATGACAGGGGTAGAGAGAACCAGAAAGGGGAT  
 GTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR213663 representing NM\_029348  
 Red=Cloning site Green=Tags(s)

MPPPAEVTDP SHAPAVLHQLNEQRLRGLFCDVTLIAGDTKFP AHRSVLAASSPFFREALLASAPLPLPPV  
 TGSAPSATTTAASSSSSPPASPSSSPPRVLELPGVPAAAFSDVLFNIYSARLALPGGGDGAAVA  
 EIGALGRRLLGISRLQGLGEGDWTWVPPAPTSMVTS DPTDGLGAGPRTDGEWGDKAALTPDSQPRRPF  
 PCPRCGKSF IHPKRLQTHEAQCRRSNTRGSAGLGPVSGSGGPAGVDASALPQPVGFRDGEHVVKVVG  
 GHVLYVCAACERSYVTLSSLKRHSNVHSWRRKYPCRYCEKVFALAEYRTKHEVWHTGERRYQCIFCWDTF  
 VTYYNLKT HQRAFHGISPGLLASEKTPNGGYKPRNLTKLYRLLPMRAAKRKYKYSQGAPEAPLSPSLH  
 TPAPAAMPASPQPLPPPAPPEGPPPSVITFAHPAPSVIVHGSSSSGAAGGGPAGTGGSQAASVITYTTP  
 RPPKKREYPPPPPEPTATPTSPASTAVSPATAAGPATATEEAKGRNLRAGRTLTYTAKPVGGLSGSGGSP  
 TGTGRGSSQLQAPPPLCQITVRIGEEAIVKRRIS ETLRPGELSGEEVEESEEEEEEEEEEDQEEQEEESK  
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 RCGDCAQAFATVRKL RKHQEAHSGGSHTSRTGRRSSTRFTCPHCAKVCKTAAALNRHQRH AVERPGGTP  
 TPVIAYSKGSIGTRPTDVKEEAPQEMQVSSSSGEAGSGSAAAAEASESASLQDPVISGGEPPVAGGGSY  
 VYPPVQEFPLALIGGSREPSAGKGPNEGSLGASEGDRMEGMGTAKVTFYPEPYPLVYGPQLLAAYPN  
 FSNLAALPVALNMVLPDEKGGALPFLPGVFGYAVNPQAAPPTPPPPLPLPVSPKIGGMTGVERTQKGD  
 VG

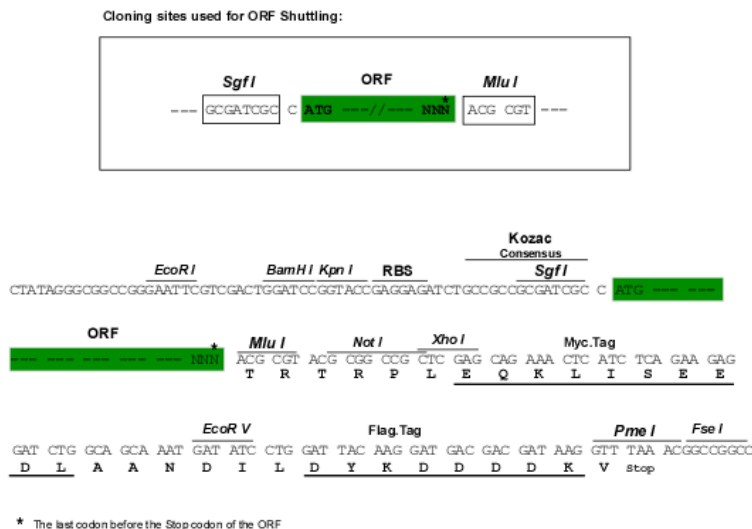
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9048\\_a06.zip](https://cdn.origene.com/chromatograms/mm9048_a06.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_029348

**ORF Size:** 2946 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\\_029348.2](#), [NP\\_083624.2](#)

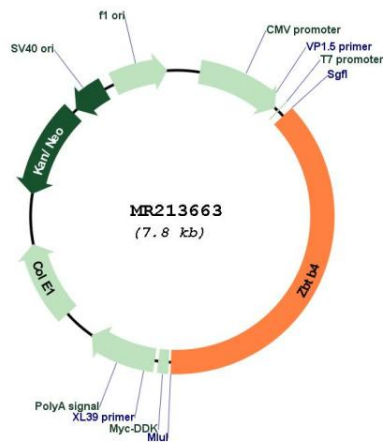
**RefSeq Size:** 7824 bp

**RefSeq ORF:** 2949 bp

**Locus ID:** 75580  
**UniProt ID:** [Q5F293](#)  
**Cytogenetics:** 11 B3  
**MW:** 103.1 kDa

**Gene Summary:** Transcriptional repressor with bimodal DNA-binding specificity. Represses transcription in a methyl-CpG-dependent manner. Binds with a higher affinity to methylated CpG dinucleotides in the consensus sequence 5'-CGCG-3' but can also bind to the non-methylated consensus sequence 5'-CTGCNA-3' also known as the consensus kaiso binding site (KBS). Can also bind specifically to a single methyl-CpG pair and can bind hemimethylated DNA but with a lower affinity compared to methylated DNA. Plays a role in postnatal myogenesis, may be involved in the regulation of satellite cells self-renewal (PubMed:27446912).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR213663