

Product datasheet for **MG213663**

Zbtb4 (NM_029348) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb4 (NM_029348) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zbtb4
Synonyms:	2310026P19Rik; 9230111I22Rik; mKIAA1538
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG213663 representing NM_029348
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACCCCTGCAGAGGTGACGGACCCATCCCATGCCCCAGCTGTCTGCATCAGCTCAATGAGCAGC
 GGCTCCGTGGCCTTCTGTGACGTCAACCTCATAGCTGGAGACACCAAGTCCCTGCTCACCGCAGTGT
 CCTGGCCGCCTCTAGTCCCTTCTCAGAGAAGCCCTACTAGCTTACGCCCACTGCCCTTCCACCAAGT
 ACTGGCGGCTCAGCCCCAGCCCCGCAACCACCACAGCTGCCTCCTTTCGTCTCCTCTCCCCCTCCAG
 CCTCTCTCACTTTCATCTCTCTCCCGGGTGCTAGAGCTGCCCGGGTCCCAGCAGCTGCCTTCTCCGA
 TGTCTCAACTTCATCTATAGTCCCGGCTTGACTCCCTGGCGGTGGTGGGGATGGGGCAGCTGTGGCA
 GAGATTGGAGCTCTGGCCGGAGGCTGGGTATCTCCCGTCTACAGGGCCTGGGGGAAGGAGGTGATACTT
 GGGTACCACCTGCCCAACTTCCATGGTCACTCAGATCTACTGAGGATGGTTTGGGGCAGGGCCTAG
 AACAGATGGAGAGTGGGTGGGTGACAAAGCTGAGGCCCTGACTCCTGACTCCCAGCCCCGGCGGCCCTT
 CCTTGGCCTCGATGTGAAAAAGCTTATCCATCCCAAGCGACTACAGACCCACGAGGCTCAGTGTGCAG
 GAGGTTCCAACACTCGGGGGTCTGCAGGGCTGGGGCTGGAGTCTCTGGCTCTGGGGTCTGCAGGAGT
 GGATGCCTCTGCCTGCCACAACCAAGTGGGCTTACAGATGGCCCTGAGCATGTGGTGAAGTGTGGGG
 GGCCACGTGCTCTATGTGTGTGCGGCCTGTGAGCGTTCACGTGACCCTGTCCAGCCTGAAGCGGCACA
 GCAATGTACACTCGTGGCGGAGGAAGTACCCCTGCCGCTACTGTGAGAAGGTGTTTGGCCTGGCTGAGTA
 CCGCACCAAGCACGAGGTGTGGCACACTGGGGAGCGCAGTACCAGTGCATCTTCTGCTGGGACACCTTT
 GTCACCTATTATAACCTGAAGACCCACCAGCGAGCCTTCCATGGCATTAGCCCTGGCCTCCTAGCCAGTG
 AGAAGACACCCAATGGAGGTACAAACCCAGGCTTAATACCCCTCAAGCTGTACCGCCTGTCTCCTATGCC
 GGCGGCCAAGCGGCCCTACAAGACCTACAGTCAGGGAGCCCTGAGGCCCTCTTTCTCCAAGCTCCAC
 ACACCGGCCCCCGCGCAATGCCAGCCAGCCCAACCCCTACCCCAACCCGCCCCAGAGCCTGGTCTC
 CCCCCTGTGCATCACCTTTGCTCATCCGGCTCCCTCTGTATTGTCCACGGGAGCAGTAGTAGTGGTGC
 AGCCGGGGGGCGGACCAGCCGGCACAGGAGGGTCCCAAGCTGCCTCAGTCATCACTTATACGACTCCCCCA
 AGACCCCCCAAGAAACGAGAGTACCCACCTCTCCCCCTGAGCCTACAGCAACACCCACCAGCCAGCCT
 CCACCGCCGTGAGCCAGCCACAGCTGCAGGGCCAGCCACAGCCACAGGAGGCCAAGGGCCGGAATCT
 GCGGGCTGGGAGGACTCTGACTTACACAGCCAAACCCGTGGTGGGTTGAGTGGGAGTGGGGTTCCCCC
 ACAGGGACTGGCCGAGGCTCTTCTCAGCTTCCAGCTCCACCTCCACTGTGTGAGTCACTGTGCAATTG
 GGAAGAGGCCATTGTCAAGCGCCGATCTCAGAACTGACCTGCGTCTGGAGAGCTGAGTGGAGAGGA
 AGTAGAGGAGAGCGAGGAAGAGGAGGAGGAAGAGGAGGAGGAGGACCAGGAGGAACAAGAGGAATCGAAG
 GCTGGAGGGGAAGATCAGCTTTGGAGACCTACTATTCATACAAGCCTAAGCGCAAGGCTGGAGCTACTG
 CCGGGGGGCCAGCGGGTCACTGGACTGCCCCGAGGACGAAGACCACCAGCTGGAGGCAAAAGCTGGA
 ACGAAGGGGCTGGGAGGAGACCCATCAGTGGAGGGCCAGGAGGACGAGGACGTGGTGAAGCTAGGCAC
 CGTTGTGGGACTGTGCCAGGCCTTGGCCACTGTGAGGAAGCTGAGAAAGCACCAGGAAGCCATAGTG
 GAGGCTCCACACCTCCAGGACTGGGAGGAGGTCTTCCACCCGCTTCCACTGTCCCCTGTGCCAAGGT
 GTGCAAGACGGCAGCTGCCCTGAACCGACATGGGCAAAGGCATGCTGTGGAACGGCCCGGGGCACTCCC
 ACACCTGTCAATTGCCTATTCCAAAGGAAGCATTGGCACCCAGGCCACTGACGTCAAGGAGGAGGCCCCCC
 AGGAGATGCAAGTGTCTCTTCCAGTGGGAGGACAGCAGTGGTAGCGCTGCCGCTGTGAAGCTTCTGA
 GTCTGCCTCACTCCAGGACCCGCTCATCTCTGGGGTGGAGGACCTCCAGTAGCAGGTGGGGCAGCTAT
 GTATACCCACCTGTGCAGGAATTTCCCCTGGCCCTGATAGGAGGCAGCCGGGAGCCAGTCCCGCAAAG
 GAAAACCTGGGAATGAGGGTTCTTGGGAGCTTCTGAGGGTGACCGGATGGAGGGATGGGGACTGCCAA
 AGTCACCTTACCTGAGCCCTACCCACTTGTCTATGGCCCCAGCTCCTTGTGCCTACCTTACAAC
 TTCAGCAACTGGCTGCTCTCCAGTTGCTCTCAACATGGTCTACCTGACGAAAAAGTGGTGGGGCCC
 TTCCTTCTACCAGGGTCTTTGGCTACGCAAGTGAATCCTCAAGCGGCCACCCACTCCCCCTCCCCC
 TCTCCCTCTGCCAGTTTCCCTAAGGGAATAGGGGAATGACAGGGGTAGAGAGAACCCAGAAGGGGAT
 GTGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG213663 representing NM_029348
 Red=Cloning site Green=Tags(s)

MPPPAEVTDP SHAPAVLHQLNEQRLRGLFCDVTLIAGDTKFP AHRSVLAASSPFFREALLASAPLPLPPV
 TGG SAPS PATTTAASSSSSSPPASPSSSPRVLELPGVPAAAFSDVLFNIYSARLALPGGGDGAAVA
 EIGALGRRLGISRLQGLGEGD TWPPAPTSMVTSDPTEDGLGAGPRTDGEWVGDKAEALTPDSQPRRPF
 PCPRCGKSF IHPKRLQTHEAQCRRGSNTRGSAGLGPVSGSGGPAGVDASALPQPVGFRDGP EHVVKVVG
 GHVLYVCAACERSYVTLSSLKRHSNVHSWRRKYPCRYCEKVFALAEYRTKHEVWHTGERRYQCIFCWDTF
 VTYYNLKTHQRAFHGISPGLLASEKTPNGGYPRLNLTLLKLYRLLPMRAAKRYPKYTSQGAP EAPLSPSLH
 TPAPAAMPASPQPLPPPAP EPGPPSVITFAHPAPSVIVHGSSSSGAAGGPGAGTGG SQAASVITYTTPP
 RPPKKREYPPPPPTATPTSPASTAVSPATAAGPATATEEAKGRNLRAGRTLTYTAKPVGGLSGSGGSP
 TGTGRGSSQLQAPPLCQITVRIGEEAIVKRRISETDLRPGELSGEEVEE EEEEEEEEEEDQEEQEESK
 AGGEDQLWRPYYSYKPKRKAGATAGGASGV SGLPRGRRPPRWRQKLERRGWEETPSVEGPGGRGRGERRH
 RCGDCAQAFATVRKLRKHQEAHSGGSHTSRTGRRSSTRFTCPHCAKVCKTAAALNRHQ RHAVERPGGTP
 TPVIAYSKGSIGTRPTDVKEEAPQEMQVSSSSGEAGSGSAAAAEASEASLQDPVISGG EEPVAVGGGSY
 VYPPVQEFPLALIGGSREPSAGKPGNEGSLGASEGDRMEGMGTAKVTFYPEPYPLVYGPQLLAAYPN
 FSNLAALPVALNMVLPDEKGGGALPFLPGVFGYAVNPQAAPPTPPPPLPLPVSPKIGGMTGVERTQKGD
 VG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

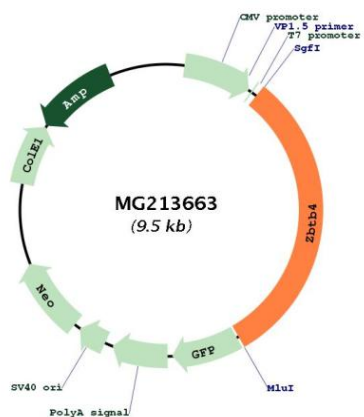


ACCN: NM_029348

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:	<ol style="list-style-type: none">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
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 MG213663