

Product datasheet for **RG208138**

ZBTB4 (NM_020899) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB4 (NM_020899) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZBTB4
Synonyms:	KAISO-L1; ZNF903
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208138 representing NM_020899 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCCCCCTGCAGAGGTGACGGACCCGTCCCATGCCCCCGCCGTCCTGCGCCAGCTCAATGAACAGC
GGCTCCGTGGCCTCTTGTGACGTCACCTCATAGCCGGAGACACCAAGTTCCTGCTCACCGCAGCGT
CCTGGCTGCTTCAAGTCCCTTTCAGAGAGGCCCTGCTCACTTCAGCCCACTACCCCTTCCACCAGT
ACTGGGGCGCCGACCCAACCCTGCCACCACACAGCTGCTTCTCCTCTCCTCTTCTCCTGTT
CTTCTCTTCTCCTCTGCTTCTTCTTCTTCTTCTCCTTCTCCTTCTCCTTCTCCCTCCAGCCTCTCC
CCCTGCTTCTCCACCACCCGGGTCTGGAGTTGCCAGGAGTCCCAGCAGCTGCGTTTTTCTGATGTCCTC
AACTTCATCTACAGCGCCCGGTCTCGCACTGCTGGTGGTGGAGGGGACGGGCGAGCTGTAGCAGAGATTG
GAGCTTTGGGGCGCCGTCTGGGCATCTCCCGCCTTCAGGGCTGGGGAGGGAGGTGATGCCTGGGTACC
TTTACCACCAGCCCCATGGCCACCTCGCAGCCTGAAGAGGACAGCTTTGGGCCCGGGCCAGGCCAGCT
GGGAGTGGGAGGGTGCAGGGCTGAGGCCCAGGCCCTGACTTGCAGTCTCCCTGCCCCGGGGCCCC
TCCCCTGCCCCAGTGTGGAAAAGCTTATCCATCCCAAACGGCTGCAGACCATGAGGCCCAAGTGGCC
ACGAGGGGCCAGCACGCGGGGTCTACAGGGCTGGGAGCTGGGGCGCTGGCCCTGGTGGTCTGCAGGG
GTGGACGCTCAGCCCTGCCTCCACCAGTGGGTTCCGAGGGGGCCCGAGCACGTGGTGAAGGTGGTGG
CGGGCCACGTGCTGTATGTGTGCGCGCCTGCGAGCGTTTCTACGTGACCCTGTCCAGTCTGAAGAGACA
CAGCAATGTACTACTCGTGGCGGAGGAAGTACCCTGCCGCTATTGTGAGAAAGTGTGGTCTGGCGGAG
TACCGCACGAAGCATGAAGTGTGGCACGCGGGGAGCGCAGGTACCAGTGCATCTTGTGGGAGACCT
TTGTCCTTACTATAACCTGAAGACCCACCAGCGAGCCTTCCACGGCATTAGCCCGGGCTCCTTGCCAG
TGAGAAGACCCAAATGGAGGCTACAAGCCAAGCTCAATACACTCAAGCTTACCGCCTGCTCCCCATG
CGGGCAGCAAGCGGCCCTACAAGACCTACAGCCAGGGAGCCCGGAGGCTCCCTTTTCTCAACCCCTCA
ACACACCGGCCCTGTGGCAATGCCAGCCAGCCCGCCCTGGGCTCCACCTGCCCCAGAGCCTGGCC
TCCACCCTCTGCATCACTTTTGCCACCCAGCCCTCTGTCATTGTCATGGGGCAGTAGCAGTGGT



[View online >](#)

```

GGAGGGGGAGTGGGACGGCCAGCACAGGAGGGTCCCAAGCTGCCTCGGTTATCACTTACTGCTCCCC
CGAGGCCACCCAAGAAACGAGAATACCCACCTCCTCCCCCTGAGCCTGCAGCCACACCCACCAGCCCAGC
CACAGCAGTCAGCCCAGCCACCGCTGCAGGGCCAGCCATGGCCACCACCAGGAGGAGGCCAAGGGCCGG
AATCCACGGGCTGGAAGGACTCTGACTTACACAGCCAAGCCAGTGGGCGGGATTGGTGGAGGTGGGGGTC
CCCCACAGGGGCTGGCCGGGGCCCTCTCAGCTGCAGGCTCCACCTCCACTGTGTGAGTCACTGTGCG
AATAGGGGAGGAGGCCATCGTCAAGCGCCGATCTCAGAGACTGACCTGCGTCTGGGGAGCTGAGCGGA
GAGGAGATGGAGGAGAGTGGAGGAGCAAGAGGAGGAGGAGCAAGAGGAGGAGGAGGAGGATGAGGAGG
AATCAAAGGCTGGTGGGAGGACCAGCTCTGGAGGCCCTACTACTCTACAAGCCTAAGTGAAGGCTGG
AGCTGCTGGAGGTGCCAGTGTGGGGGCGAGTGGGCTGCCCGAGGCCCGCGGCCACCACGTTGGAGGCAG
AAGCTGGAACGGAGGAGCTGGGAGGAAACCCAGCGGCCGAGAGCCAGCGGGACGTGCCCGCACAGAGC
GGAGGCACCGATGCGGGGACTGTGCCAGACCTTACCACCTGAGAAAGCTGCGGAAGCACCAAGAGGC
CCACGGTGGGGCTCCCACAGCTCCCGGGCCGACGGAGGCCCTCACCCGCTTTACCTGCCCCACTGC
GCCAAGGTGTGCAAGACCGCAGCTGCCCTGAGCCGCCACGGCCAGAGGCATGCTGCTGAGCGCCCGGG
GCACCCCAACCCCTGTCATTGCCTATTCGAAGGGCAGCGCTGGCACCAGGCCCGGGATGTCAAGGAGGA
AGCCCCCAAGAGATGCAAGTCTCTCATCCAGCGGTGAGGCAGGTGGCGGGAGCACTGCTGCTGAGGAA
GCTTCCGAGACCCCTCACTCCAGGACCTATCATTTTCAGGGGGTGGAGGCCCCAGTAGTGGCAAGCG
GGGCGAGCTATGTATACCCACCTGTGCAGGAATTTCCACTGGCCTTGATTGGGGGCGCCGGGAACCTGG
CGGTGGCAGGGGAAAATCTGGGAGTGAAGGGCCAGTGGGGGCTGGTGGGGGGACCGGATGGAGGGGATA
GGGGTGCCTAAGTCACTTTCTACCCTGAGCCCTACCCGCTCGTCTATGGCCCCAGCTCCTTGGCCCT
ACCCTTACAACCTCAGTAACTTGGCCGCTCTCCCGGTTGCTCTCAACATGGTCTACCTGATGAGAAGGG
TGCGGGGGCCCTCCCTTCTACCAGGGGCTTTGGCTACGCAGTGAATCCTCAAGCAGCACCCCTGCC
CCACCAACACCACCTCCCCAACTTCTCTCCACCAATTCCCCCTAAGGGAGAAGGGGAAAGGGCAGGGG
TTGAGAGAACCCAGAAGGGCGATGTGGGG
    
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208138 representing NM_020899
 Red=Cloning site Green=Tags(s)

```

MPPPAEVTDP SHAPAVLRQLNEQRLRGLFCDVTLIAGDTKFP AHRSVLAASSPFFREALLTSAPLPLPPA
TGGAAPNPATTTAASSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
NFIYSARLALPGGGDGA AVEIGALGRRLGISRLQGLGEGD AWPSTPAPMATSQPEEDSF GPGRPA
GEWEGDRAEAQAPDLQCSL PRRPLPCPQCGKSF IHPKRLQTHEAQRRGASTRGSTGLGAGGAGPGGPAG
VDASALPPPVGFRGGPEHV VVGGHVLVYCAACERSYVTL SSLKRHSNVHSWRRKYPCRYCEKVFALAE
YRTKHEVWHTGERRYQCF CWETFVYYNLKTHQRAFHG I SPGLLASEKTPNGGYKPKLNTLKL YRLLPM
RAAKRPYKYSQGAPEAPL SPTLNTPAPVAMPASPPP GPPPAPEPGPPPSVITFAHPAPSIVHGGSSSG
GGSGTASTGGSQAASVITYT APPRPPKKREYPPPPPEPAATPT SPATAVSPATAAGPAMATTT EAKGR
NPRAGRTLTYTAKPVGGI GGGGGPPTGAGRGSQ LQAPPPLCQITVRI GEEAIVKRRRISETDLRPGELSG
EEME EEEEEEEEEEEEEEE EEEESKAGGEDQLWRPYYSYKPKCKAGAAGGASVGGSGLPRGRRPPRWRQ
KLERRSWEETPAAESPA GRARTERRHRCGDCAQTF TTLRKL RKHQEAHG GSHSSRAGRPRSTRFTCPHC
AKVCKTAAALSRHGQRHAA ERPGGTPTPVIAYSKGSAGTRPGDVKEEAPQEMQVSSSSS GEAGGGSTAAEE
ASETASLQDPIISGGEPPV VASGGSYVYPVQEFPLAL IGGGREPGGGRKSGSEGPV GAGEGDRMEGI
GAAKVTFYPEPYPLVYGPQL LAAYPNF SNLAALPVALNMVLPDEK GAGALPFLPGVFGYAVNPQAAPPA
PPTPPPTLPPP IPPKGEGERAGVERTQKGDVG
    
```

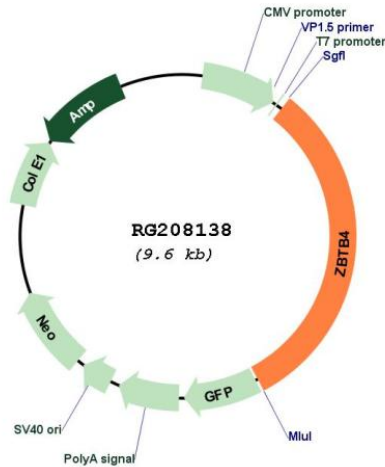
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN:

NM_020899

ORF Size:

3039 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_020899.2 , NP_065950.1
RefSeq Size:	5888 bp
RefSeq ORF:	3042 bp
Locus ID:	57659
UniProt ID:	Q9P1Z0
Cytogenetics:	17p13.1
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 (PubMed:16354688). Plays a role in postnatal myogenesis, may be involved in the regulation of satellite cells self-renewal (By similarity). [UniProtKB/Swiss-Prot Function]