OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC226298

ZBTB4 (NM_001128833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB4 (NM_001128833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZBTB4
Synonyms:	KAISO-L1; ZNF903
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC226298 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCCCCCCTGCAGAGGTGACGGACCCGTCCCATGCCCCCGCCGTCCTGCGCCAGCTCAATGAACAGC
GGCTCCGTGGCCTCTTCTGTGACGTCACCCTCATAGCCGGAGACACCAAGTTCCCTGCTCACCGCAGCGT
CCTGGCTGCTTCAAGTCCCTTCTTCAGAGAGGCCCTGCTCACTTCAGCCCCACTACCCCTTCCACCAGCT
ACTGGGGGCGCCGCACCCAACCCTGCCACCACCACAGCTGCCTCTTCCTCCTCCTCCTCTTCCTCGTCTT
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CCCTGCTTCTTCCCCACCCCGGGTCCTGGAGTTGCCAGGAGTCCCAGCAGCTGCGTTTTCTGATGTCCTC
AACTTCATCTACAGCGCCCGGCTCGCACTGCCTGGTGGTGGAGGGGACGGGGCAGCTGTAGCAGAGATTG
GAGCTTTGGGGCGCCGTCTGGGCATCTCCCGCCTTCAGGGCCTGGGGGAGGGAGGTGATGCCTGGGTACC
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GTGGACGCCTCAGCCCTGCCTCCACCAGTGGGCTTCCGAGGGGGCCCCGAGCACGTGGTGAAGGTGGTGG
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TTGTCACTTACTATAACCTGAAGACCCACCAGCGAGCCTTCCACGGCATTAGCCCGGGCCTCCTTGCCAG
TGAGAAGACACCCAATGGAGGCTACAAGCCCAAGCTCAATACACTCAAGCTCTACCGCCTGCTCCCCATG
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ACACACCGGCCCCTGTGGCAATGCCAGCCAGCCCGCCGCCTGGGCCTCCACCTGCCCCAGAGCCTGGCCC
TCCACCCTCTGTCATCACTTTTGCCCACCCAGCCCCCTCTGTCATTGTCCATGGGGGCAGTAGCAGTGGT

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GGAGGGGGGAGTGGGACGGCCAGCACAGGAGGGTCCCAAGCTGCCTCGGTTATCACTTACACTGCTCCCC
CGAGGCCACCCAAGAAACGAGAATACCCACCTCCTCCCCCTGAGCCTGCAGCCACACCCACCAGCCCAGC
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TTGAGAGAACCCAGAAGGGCGATGTGGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226298 protein sequence
Red=Cloning site Green=Tags(s)

MPPPAEVTDPSHAPAVLRQLNEQRLRGLFCDVTLIAGDTKFPAHRSVLAASSPFFREALLTSAPLPLPPA
TGGAAPNPATTTAASSSSSSSSSSSSSSSASSSSSSSSSPPPASPPASSPPRVLELPGVPAAAFSDVL
NFIYSARLALPGGGGDGAAVAEIGALGRRLGISRLQGLGEGGDAWVPSTPAPMATSQPEEDSFGPGPRPA
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RAAKRPYKTYSQGAPEAPLSPTLNTPAPVAMPASPPPGPPPAPEPGPPPSVITFAHPAPSVIVHGGSSSG
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NPRAGRTLTYTAKPVGGIGGGGGPPTGAGRGPSQLQAPPPLCQITVRIGEEAIVKRRISETDLRPGELSG
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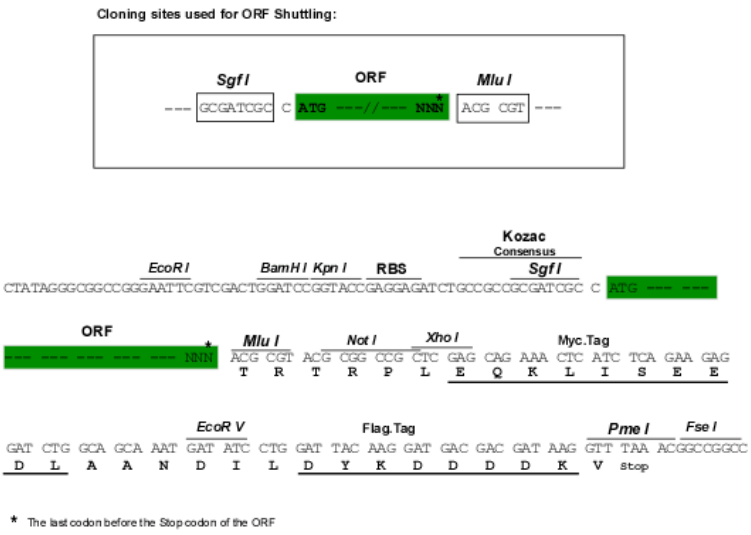
AKVCKTAAALSRHGQRHAAERPGGTPTPVIAYSKGSAGTRPGDVKEEAPQEMQVSSSSGEAGGGSTAAEE
ASETASLQDPIISGGEEPPVVASGGSYVYPPVQEFPLALIGGGREPGGGRGKSGSEGPVGAGEGDRMEGI
GAAKVTFYPEPYPLVYGPQLLAAYPYNFSNLAALPVALNMVLPDEKGAGALPFLPGVFGYAVNPQAAPPA
PPTPPPPTLPPPIPPKGEGERAGVERTQKGDVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6678_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001128833
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:	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_001128833.1, NP_001122305.1
RefSeq Size:	5885 bp
RefSeq ORF:	3042 bp
Locus ID:	57659

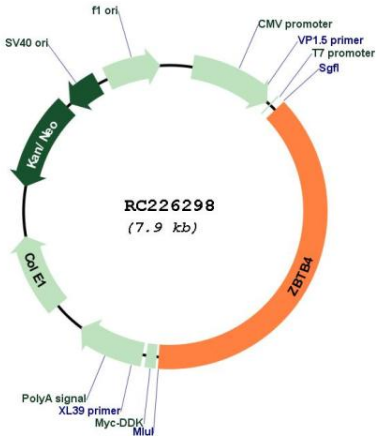
UniProt ID: Q9P1Z0

Cytogenetics: 17p13.1

MW: 105.1 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 (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]

Product images:



Circular map for RC226298