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Product datasheet for SC304861

ZBTB4 (NM_020899) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZBTB4 (NM_020899) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZBTB4
Synonyms:	KAISO-L1; ZNF903
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC304861 representing NM_020899.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCCCCCCTGCAGAGGTGACGGACCCGTCCCATGCCCCCGCCGTCCTGCGCCAGCTCAATGAACAG
CGGCTCCGTGGCCTCTTCTGTGACGTCACCCTCATAGCCGGAGACACCAAGTTCCCTGCTCACCGCAGC
GTCCTGGCTGCTTCAAGTCCCTTCTTCAGAGAGGCCCTGCTCACTTCAGCCCCACTACCCCTTCCACCA
GCTACTGGGGGCGCCGCACCCAACCCTGCCACCACCACAGCTGCCTCTTCCTCCTCCTCCTCTTCCTCG
TCTTCTTCCTCTTCTTCCTCCTCTGCTTCTTCTTCTTCTTCCTCTTCCTCTTCCTCTCCCCCTCCAGCC
TCTCCCCCTGCTTCTTCCCCACCCCGGGTCCTGGAGTTGCCAGGAGTCCCAGCAGCTGCGTTTTCTGAT
GTCCTCAACTTCATCTACAGCGCCCGGCTCGCACTGCCTGGTGGTGGAGGGGACGGGGCAGCTGTAGCA
GAGATTGGAGCTTTGGGGCGCCGTCTGGGCATCTCCCGCCTTCAGGGCCTGGGGGAGGGAGGTGATGCC
TGGGTACCTCCTACCCCAGCCCCCATGGCCACCTCGCAGCCTGAAGAGGACAGCTTTGGGCCCGGGCCC
AGGCCAGCTGGGGAGTGGGAGGGTGACAGGGCTGAGGCCCAGGCCCCTGACTTGCAGTGCTCCCTGCCC
CGGCGGCCCCTCCCCTGCCCCCAGTGTGGAAAAAGCTTCATCCATCCCAAACGGCTGCAGACCCATGAG
GCCCAGTGCCGACGAGGGGCCAGCACGCGGGGGTCTACAGGGCTGGGAGCTGGGGGCGCTGGCCCTGGT
GGTCCTGCAGGGGTGGACGCCTCAGCCCTGCCTCCACCAGTGGGCTTCCGAGGGGGCCCCGAGCACGTG
GTGAAGGTGGTGGGCGGCCACGTGCTGTATGTGTGCGCGGCCTGCGAGCGTTCCTACGTGACCCTGTCC
AGTCTGAAGAGACACAGCAATGTACACTCGTGGCGGAGGAAGTACCCCTGCCGCTATTGTGAGAAAGTG
TTTGCTCTGGCGGAGTACCGCACGAAGCATGAAGTGTGGCACACGGGGGAGCGCAGGTACCAGTGCATC
TTCTGTTGGGAGACCTTTGTCACTTACTATAACCTGAAGACCCACCAGCGAGCCTTCCACGGCATTAGC
CCGGGCCTCCTTGCCAGTGAGAAGACACCCAATGGAGGCTACAAGCCCAAGCTCAATACACTCAAGCTC
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CCCCTTTCTCCAACCCTCAACACACCGGCCCCTGTGGCAATGCCAGCCAGCCCGCCGCCTGGGCCTCCA
CCTGCCCCAGAGCCTGGCCCTCCACCCTCTGTCATCACTTTTGCCCACCCAGCCCCCTCTGTCATTGTC
CATGGGGGCAGTAGCAGTGGTGGAGGGGGGAGTGGGACGGCCAGCACAGGAGGGTCCCAAGCTGCCTCG

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GTTATCACTTACACTGCTCCCCCGAGGCCACCCAAGAAACGAGAATACCCACCTCCTCCCCCTGAGCCT
GCAGCCACACCCACCAGCCCAGCCACAGCAGTCAGCCCAGCCACCGCTGCAGGGCCAGCCATGGCCACC
ACCACGGAGGAGGCCAAGGGCCGGAATCCACGGGCTGGAAGGACTCTGACTTACACAGCCAAGCCAGTG
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CCTCCACTGTGTCAGATCACTGTGCGAATAGGGGAGGAGGCCATCGTCAAGCGCCGCATCTCAGAGACT
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GAAGAGGAGGAGGAGGAGGATGAGGAGGAATCAAAGGCTGGTGGGGAGGACCAGCTCTGGAGGCCCTAC
TACTCCTACAAGCCTAAGCGCAAGGCTGGAGCTGCTGGAGGTGCCAGTGTGGGGGGCAGTGGGCTGCCC
CGAGGCCGCCGGCCACCACGTTGGAGGCAGAAGCTGGAACGGAGGAGCTGGGAGGAAACCCCAGCGGCC
GAGAGCCCAGCGGGACGTGCCCGCACAGAGCGGAGGCACCGATGCGGGGACTGTGCCCAGACCTTCACC
ACCCTGAGAAAGCTGCGGAAGCACCAAGAGGCCCACGGTGGGGGCTCCCACAGCTCCCGGGCCGGACGG
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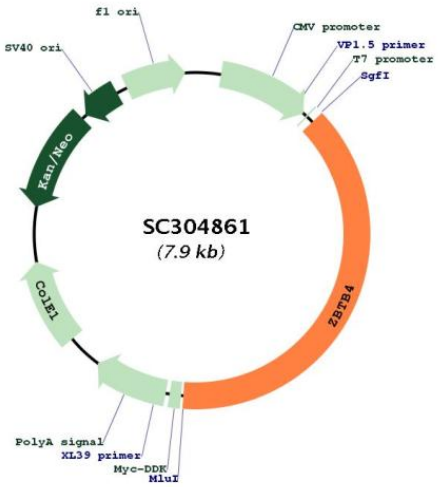
TTTCCACTGGCCTTGATTGGGGGCGGCCGGGAACCTGGCGGTGGCAGGGGAAAATCTGGGAGTGAAGGG
CCAGTGGGGGCTGGTGAGGGGGACCGGATGGAGGGGATAGGGGCTGCCAAAGTCACTTTCTACCCTGAG
CCCTACCCGCTCGTCTATGGCCCCCAGCTCCTTGCCGCCTACCCTTACAACTTCAGTAACTTGGCCGCT
CTCCCGGTTGCTCTCAACATGGTCCTACCTGATGAGAAGGGTGCGGGGGCCCTTCCCTTCCTACCAGGG
GTCTTTGGCTACGCAGTGAATCCTCAAGCAGCACCCCCTGCCCCACCAACACCACCTCCCCCAACTCTT
CCTCCACCAATTCCCCCTAAGGGAGAAGGGGAAAGGGCAGGGGTTGAGAGAACCCAGAAGGGCGATGTG
GGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_020899

Insert Size: 3042 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_020899.3
RefSeq Size:	5961 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] Transcript Variant: This variant (1) and variant 2 encode the same protein.