

Product datasheet for **SC314314**

ZBTB1 (NM_014950) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ZBTB1
Synonyms:	ZNF909
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>SC314314 representing NM_014950.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAAGAGCCAGCCACAGCAGCTATGTCCTTCAGCAGCTAAACAACCAAGAGAATGGGGTTTCTC
TGTGACTGCTGATTGCAATTGATGACATTTACTTTCAAGCACACAAGGCAGTTCTAGCTGCCTGTAGC
TCCTATTTTGAATGTTTTTCATGAACCATCAGCATAGTACTGCACAACCTGAATCTCAGCAACATGAAA
ATTAGTGCAGAAATGTTTGTCTCATTTTGCAGTTTATGTATTTAGGAAAAATTATGACAGCTCCCTCC
AGTTTTGAGCAGTTTAAAGTGGCAATGAACCTACAGCTATACAATGTTCTGACTGTTTAGAAGAC
ATCCAGGATGCAGATTGTTCTAGTTCAAAATGTTCTCTTCTGCTTCCAGCAACAGAACAGCAAAATG
ATATTTGGGGTAAGAATGTATGAAGATACTGTGGCTCGAAATGGCAATGAAGCCAACAGGTGGTGTGCA
GAGCCAAGTTCAACGGTAAATACACCACATAATAGAGAGGCTGATGAAGAGTCTTTACAATTAGGTAAT
TTTCTGAGCCACTATTTGATGTATGTAAAAAAGTTCGGTGTCCAATATCTACTCCAAAAGAACGT
GTGTCAAGACGCTTTGGCGGAGTTTACCTGTGATAGCTGTGGATTTGGCTTTAGCTGTGAAAAATTA
TTAGATGAGCATGTGCTAACCTGTACTAACAGACATTTATACCAAAACACAAGATCTTACCATAGATA
GTAGATATTAGAGATGAAAAAGACAGTAACATCAAAGCTGAATTTGGTGAAGAAATCTTCCAAAACA
TTTTCTGCACAGACGCAAAATACAGAGGAGACACAAGCCAGGCTGCTGATGATTGAGCTTCAACCACT
GGAAGCAGAAAAAGTAGCAGTGGAGTCTGAATAGCAAGCGAAGAGAAAAGCAGAGCTGCTGAGAGG
AAAAGGATTATTATTAAGATGGAGCCAGAAGATTTCTACAGATGAAGTGAAGACTTTAACATTATT
AAAGTTACTGATAAAGACTGTAATGAATCCACTGACAATGATGAATTAGAAGATGAACCTGAAGAGCCA
TTTTATAGATACTATGTTGAAGAAGATGTCAGCATAAAAAAAGTGGTAGGAAAACCTCTAAACCTCGA
ATGTCAGTAAGTGCTGATGAAAGAGGTGGTTTAGAGAATATGAGGCCCTTAAACACAGCAGTCCAGTA
CAAGAGGATGCTGAAAATGCATCTTGTGAGCTGTGTGGACTTACAATAACCGAGGAGGACCTGTCATCT
CATTACTTAGCCAAACACATTGAAAATATCTGTGCATGTGGTAAATGTGGACAAATACTTGTAAAGGGT
AGGCAGCTTCAGGAACATGCTCAACGATGTGGCGAGCCCCAAGATCTGACCATGAATGGGTAGGAAAT
ACTGAGGAGAAAAATGGACTTGAAGAGAATCCTGATGAGCAGTCCGAAAATAGAGATATGTTTGTGAA
ATGCTGGATGATTTTAGGGACAATCATTACCAGATAAACAGTATCCAAAAAAGCAGTTATTTAAACAT
TCTGCCTGCCCTTTTCGATGTCCTAATTGTGGCCAGCGTTTGAAGTGAAGTCTAGTGGTTGAACAT
ATGTCTAGCTGCTTAGATCAAGATATGTTAAGAGTGCCATCATGGAAGAAAATGAAGAGATCAGAGA
CGAAAGCATTTTGTAACTGTGTGAAAAGGATTTTATCAGCGGTGCTCACTTAAGAGAACTATACT
GTTCACTAAGGAAAAACAGTTTGTGTGCAACATGTGGAAGCAGTTTAAAGAGAGCGTCAGTTG
CGACTGCACAATGATATGCACAAGGCATGGCCAGTGGTGAATAGGGCCTTCTAAACCTGTGGAGAAG
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:

SgfI-MluI

ACCN:

NM_014950

Insert Size:

1935 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014950.2
RefSeq Size:	4119 bp
RefSeq ORF:	1935 bp
Locus ID:	22890
UniProt ID:	Q9Y2K1
Cytogenetics:	14q23.3
Domains:	BTB, zf-C2H2
Protein Families:	Transcription Factors
MW:	73.7 kDa
Gene Summary:	Acts as a transcriptional repressor (PubMed:20797634). Represses cAMP-responsive element (CRE)-mediated transcriptional activation (PubMed:21706167). In addition, has a role in translesion DNA synthesis. Requires for UV-inducible RAD18 loading, PCNA monoubiquitination, POLH recruitment to replication factories and efficient translesion DNA synthesis (PubMed:24657165). Plays a key role in the transcriptional regulation of T lymphocyte development (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) contains a distinct 3' coding region and 3' UTR, compared to variant 1. This results in a shorter isoform (2) with a distinct C-terminus, compared to isoform 1.