

Product datasheet for **MC221056**

Zbtb1 (NM_178744) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Zbtb1
Synonyms:	9430077A12; AI256369; Bsg2; C430003J21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>MC221056 representing NM_178744

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAAGCCACAGCAGCTATGTCCTGCAGCAGCTCAACAACCAAGAGAGTGGGGCTTCTCT
GTGACTGCTGTATCGCTATCGACGACATCTACTTCCAAGCACACAAAGCCGCTCGCTGCCTGTAGCTC
CTACTTTAGGATGTTTTTCATGAACCATCAGCAGTACTGCACAACCTGACCAACATGAAGATA
AGTGCTGAGTGCTTTGATCTCATTTTGCAGTTCATGTATTTAGGAAAGATCATGACCGCTCCTTCCAGTT
TCGAGCAGTTCAAAGTGGAATGAACCTACCTCCAGCTGTACAATGTTCTGACTGCTTGGAAAGACATACA
GGACGCAGACTGTTCTAGTTCAAAGTGTTCTGCTTCTGCTCCAGCAGGCAGAGCAGCAAGATGATTTTT
GGGGTGAGAATGTATGAAGACCGGTGGCTAGAAATGGCAATGAAGCCAACAGGTGGTGTGCGGAGCCCA
GTTCAACGGTGAATACGCCGCATCAGAGAACCTGAGGAAGAGTCTTTCAGTTGGCCAACCTCCCGGA
GCCGCTGTTTGTGTGTAAAAAAGTTCTGTGTCCAAATATCTACTCCAAAAGAACGTGTCTCGA
CGCTTTGGACGGAGCTTTACCTGTGATAGTTGTGGATTGGCTTCAGCTGTGAAAAGTTACTAGACGAAC
ATGTGCTGACCTGTACCAACAGACACTCATACCAAAACACGACAAGAGCTTACCACCGAATAGTAGATAT
TAGAGATGGAAGATAGTAACATCAAAGCTGAACCTGCTGAAAAGGATTCTTCAAACATTTTCTGCA
CAGCCGGACAAATACAGAGAAGACGCCAACCGCGCTGATGATTCAGCCTCGACCACTGGAAGCAGGA
AAGACACCGTGGAGGCTGGGATAGCTGGTGAGGAGAAAAGCAGAGCTACTGAGACAAAACGAATTATCAT
CAAGATGGAGCCAGAAGATATCCCTGCAGATGACATGAAAGACTTCAACATTATTAAGTTACTGAGAAA
GACTGCAACGAGTCCACCGACAATGATGAATTAGAAGATGAACCCGAGGAGCCATTTATAGATACTATG
TTGAGGAAGATGTCGGCATTAAAAAAGTGGTAGGAAAACCTAAAACCTCGTATGTCCATCAGCGTGA
TGAGAGAGGTGGCTTAGAGAACATGAGACCCCGAATAACACCAGCCCATACAAGAGGATGCAGAGAAT
GCATCTTGTGAGCTGTGTGGACTCACAATAACTGAGGAGGACCTGTCGTCTATTACTTGGCCAAGCACA
TTGAAAATATCTGTGCATGTGGTAAATGTGGACAGATACTTGTCAAGGGCAGACAGCTTCAGGAACATGC
TCAGAGGTGCGGAGAACCCAGGATCTGACAATGAATGGCTAGGGAACGCTGACGAGAAAATGGACATG
GAAGAGAACCCTGACGAGCAGTCTGAGATAAGAGACATGTTTGTGAAATGCTGGATGATTTTCAGAGACA
ATCATTACCAAAATAATAGTATCCAGAAAAGCAGTTATTTAAACATTCTGCCTGTCCTTTCCGATGTCC
TAATTGTGGCCAGCGTTTTGAACTGAAAATTTAGTGGTGAACATATGTCTAGCTGCCTAGACCAAGAT
ATGTTCAAGGTGCCATCATGGAAGAAAATGAAAGAGATCACAGAAGAAAACATTTTGTAACTGTGTG
GAAAAGGATTTTATCAGCGCTGTCATTTGAGAGAGCACTATACTGTGCACACTAAAGAAAAGCAGTTTGT
TTGTACAGACATGTGGAAGCAGTTTTTAAGAGAGCGCCAGTTGCGTCTACACAATGATATGCACAAGGC
ATGGCCAGGTATGTCTGTTCCATTTGTGATCAAGGAACTTCCGAAAACATGACCATGTACGGCATATGA
TCTCGCACCTGTCTGGTGGGAGACTATATGCCAGGTCTGCTTTCAGATATCCCAATAATGAACAAC
GGAGCAGCATATGGATGTCCATCTGTACACGTGTGGAATATGTGGAGCAAAGTTTAAATTTGAGGAAGGAT
ATGAGATCGCATTATAATGCCAAGCATTGAAAAGAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_178744

Insert Size:

2142 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).

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:	<u>NM_178744.2, NP_848859.1</u>
RefSeq Size:	4001 bp
RefSeq ORF:	2142 bp
Locus ID:	268564
UniProt ID:	<u>Q91VL9</u>
Cytogenetics:	12 C3
Gene Summary:	Acts as a transcriptional repressor (By similarity). Represses cAMP-responsive element (CRE)-mediated transcriptional activation (By similarity). 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 (By similarity). Plays a key role in the transcriptional regulation of T lymphocyte development (PubMed:22201126, PubMed:22753936).[UniProtKB/Swiss-Prot Function]