

Product datasheet for **MG224036**

Zbtb17 (NM_009541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb17 (NM_009541) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zbtb17
Synonyms:	AA589413; Lp-1; Miz1; mZ13; Zfp100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224036 representing NM_009541
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTTC~~CCCC~~AGCACAGCCAGCGTGTCTTGGAGCAGCTGAACCAGCAGCGGCAACTGGGCCCTCTCT
 GTGACTGCACCTTTGTGGTGGACGGCGTTGACTTCAAGGCTCACAAAGCGGTGCTGGCAGCTTGCAGCGA
 GTACTTCAAGATGCTCTTTGTGGACCAGAAGGACGTGGTGCACCTAGACATCAGTAAATGCGGCAGGCCTG
 GGGCAGGTGCTGGAGTTCATGTACTGCTAAGCTGAGCCTTAGCCCTGAGAAGCTGGACGATGTTCTGG
 CCGTGGCCAGCTTCTCCAGATGCAGGATATCGTCACGGCCTGCCACACGCTCAAGTCCCTCGTGAGCC
 GAGCAGCACCCTGGGGAGAGCGCAGACGCCTCAGCTGTGGAAGGAGGAGACAAGAGAGCCAAAGACGAG
 AAGGCCGCTGCCACCATGTTGAGCAGGCTGGGCCAAGCAAGAGGCAGCTCCTCCACAGGCCCGGCCAGAG
 AACTCAAGGAGGAGCGGGTGGCCAGGCAGAAAGTGCATCCAGTGGCGCAGAGCAGCGGAGAAGGCAGA
 CGTCCCCGGGAGCCTCCACCTGTGGAGCTCAAGCCGGACCCACAAGCAGCATGGCGGCTGCAGAAAGCC
 GAAGCCTTATCAGAGAGCTCAGAGCAAGAAATGGAAGTGGAGCCAGCCAGCAAAGGAGAAGACGGACAAG
 AGGAAGAGGGTGCAGGGCCTGCCACAGTCAAGGAAGAGGGGATGCATCTGGATAACGGGGAGCCTCTGA
 GGAGAATGAAGAGTCTGCCGGCACAGATTCTGGGCAGGAGCTTGGCATGGAGGGTCAAGACCTGCCTCG
 GGCACCTACGGGGATCGCACTGAGTCCAAGGCTTACGGCTCCATCCACAAGTGCAGGACTGCGGGGA
 AGGAGTTCACGCACACAGGGAACCTTCAAACGGCACATCCGCATCCACACGGGGGAGAAACCTTTCTCATG
 CAGGGAGTGCAGCAAGGCTTTCTCGACCTGCAGCGTCAAGGCTCATGAGAAGACACAGCCCGTTG
 AAACCTTATGGGTGTGAGGAGTGTGGCAAGAGCTACAGGCTCATCAGCCTGCTGAACCTGCATAAGAAGA
 GGCACCTCGGGGAGGCGCGCTACCGCTGCGGGACTGTGGCAAGCTTTCAACACTTCAGGCAACCTCAA
 GCGCCACAGCTGGTACACAGTGGCCAGAAACCTACCAGTGCAGTACTGTGGCCGCTCCTTCTCTGAC
 CCCACCTTAAGATGCGCCACCTGGAGACTCACGACACCGACAAGGAACACAAGTGTCTCTACTGCGACA
 AAAAGTTCAAACAGGTGGGGAACCTGAAGGCCACTTGAAGATCCACATTGCCGATGGCCCTCTTAAGTG
 CCGGGAGTGCGGGAAGCAGTTCACCACCTCAGGGAACCTCAAGCGGCACCTGCGGATCCACAGTGGGGAG
 AAGCCGTACGTATGCACCCACTGTCAGCGGCAGTTTCCGACCCAGGCGCGCTACAGCGGCACGTCCGGA
 TCCACACGGGTGAGAAGCCGTGCCAGTGTGTGATATGTGGTAAGGCTTTACCAAGCCAGCTCCCTCAT
 CGCCCATGTACGCCAACACACGGGGGAGAAGCCCTACGCTGTGAACGCTGTGGCAAGAGATTTGTCCAG
 TCCAGCCAGTTGGCCAACCACATCCGTACCATGACAACATCCGACCGCACAAAGTGCAGCGTGTGTAGCA
 AGGCCTTCGTGAATGTGGGGACCTGTCCAAGCACATTATCATCCACACCGGAGAGAAGCCTTATTTGTG
 TGACAAATGTGGCCGTGTTTCAACCGGGTAGACAACCTGCGTTCATGTAAAGACCGTGCATCAGGGC
 AAGCGGGCATCAAGATCCTGGAGCCAGAAGAGGGTGGTGGAGTCAAGCGTGGTCACTGTGGACGACATGG
 TCACCTGGCCACTGAGGCTCTGGCAGCGACAGCGGCTACTCAGTAAACAGTGGTACCAGTGGGGCCCGC
 AGTGACAGCTGACGAGACGGAAGTACTCAAAGCTGAGATCAGCAAAGCTGTCAAGCAAGTGCAGGAAGAA
 GACCCCAACCCACATCCTCTACGCTTGTGATTCTGTGGGGACAAGTTCCTGGATGCCAATAGCCTAG
 CCCAGCATGTTCCGATCCACACAGCCAGGCACTGGTTCATGTTCCAGACGGATGCGGACTTCTACCAGCA
 GTATGGGCCAGGCAGCACGTGGCCAGCCGGCAGATGCTGCAGGCTGGAGAGCTCGTCTTCCGTCCTAGG
 GATGGGACTGAGGGCAACCCACACTGGCAGAAAGTCCACCCACAGCTCCTGATTGCCTACCACCTGCC
 AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224036 representing NM_009541
 Red=Cloning site Green=Tags(s)

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MDFPQHSQRVLEQLNQQRQLGLLCDCTFVVDGVDFKAHKAVLAACSEYFKMLFVDQKDVVHLDISNAAGL
GQVLEFMYTAKLSLSPENVDDVLAVASFLQMQDIVTACHTLKSLAEPSSTTGESADASAVEGGDKRAKDE
KAAATMLSRGQARGSSSTGPGRELKEERGGQAESASSGAEQTEKADAPREPPPVELKPDPTSSMAAAEA
EALSESSEQEMEVEPASKGEDGQEEEGAGPATVKEEGMHLDNGEPPPEENEEESAGTDSGQELGMEGQNLRS
GTYGDRTESKAYGSI.IHKCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACKAHEKTHSPL
KPYGCEECSYRLISLLNLHKKRHSGEARYRCGDCGKLFTTSGNLKRHQLVHSGQKPYQCDYCGRSFSD
PTSKMRHLETHDTEKHKCPHCDKKNQVGNLKAHLKIHADGPLKCRECGKQFTTSGNLKRHLRIHSGE
KPYVCTHCQRQFADPGALQRHVRHTGEKPCQCVICGKAFTQASSLIAHVRQHTGEKPYVCERCGRFVQ
SSQLANHIRHHDNIRPHKCSVCSKAFVNVGDL SKHIIHTGEKPYL CDKCGRGNRVDNLRSHVKT VHQG
KAGIKILEPEEGGEVSVTVDDMVTLATEALAAVTQLTVVPVGAAVTADETEVLKAEISKAVKQVQEE
DPNTHILYACDSCGDKFLDANSLAQHVRHTAQAALVMFQTDADFYQYGPSTWPAQMLQAGELVFRPR
DGTEGQPTLAESPPTAPDCLPPAE
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI *BamHI* *KpnI* RBS *Kozac*
 Consensus *SgfI* *AscI*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* GFP Tag

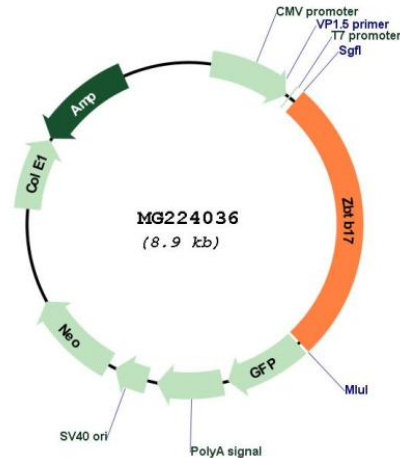
CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

PmeI *FseI*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:


ACCN: NM_009541

ORF Size: 2382 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_009541.2](#), [NP_033567.2](#)

RefSeq Size: 3415 bp

RefSeq ORF: 2385 bp

Locus ID: 22642

UniProt ID: [Q60821](#)

Cytogenetics: 4 D3

Gene Summary:

Transcription factor that can function as an activator or repressor depending on its binding partners, and by targeting negative regulators of cell cycle progression. Has been shown to bind to the promoters of adenovirus major late protein and cyclin D1 and activate transcription. Required for early embryonic development during gastrulation. Plays a critical role in early lymphocyte development, where it is essential to prevent apoptosis in lymphoid precursors, allowing them to survive in response to IL7 and undergo proper lineage commitment. Represses RB1 transcription; this repression can be blocked by interaction with ZBTB49 (By similarity).[UniProtKB/Swiss-Prot Function]