

Product datasheet for **MR224036**

Zbtb17 (NM_009541) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb17 (NM_009541) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zbtb17
Synonyms:	AA589413; Lp-1; Miz1; mZ13; Zfp100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR224036 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTTC~~CCCC~~AGCACAGCCAGCGTGTCTTGGAGCAGCTGAACCAGCAGCGGCAACTGGGCCTCCTCT
 GTGACTGCACCTTTGTGGTGGACGGCGTTGACTTCAAGGCTCACAAAGCGGTGCTGGCAGCTTGCAGCGA
 GTACTTCAAGATGCTCTTTGTGGACCAGAAGGACGTGGTGCACCTAGACATCAGTAAATGCGGCAGGCCTG
 GGGCAGGTGCTGGAGTTCATGTACTGCTAAGCTGAGCCTTAGCCCTGAGAACGTGGACGATGTTCTGG
 CCGTGGCCAGCTTCTCCAGATGCAGGATATCGTCACGGCCTGCCACACGCTCAAGTCCCTCGTGAGCC
 GAGCAGCACCCTGGGGAGAGCGCAGACGCTCAGCTGTGGAAGGAGGAGACAAGAGAGCCAAAGACGAG
 AAGGCCGTGCCACCATGTTGAGCAGGCTGGGCCAAGCAAGAGGCAGCTCCTCCACAGGCCCGGCAGAG
 AACTCAAGGAGGAGCGGGTGGCCAGGCAGAAAGTGCATCCAGTGGCGCAGAGCAGCGGAGAAGGCAGA
 CGTCCCCGGGAGCCTCCACCTGTGGAGCTCAAGCCGGACCCACAAGCAGCATGGCGGCTGCAGAAAGCC
 GAAGCCTTATCAGAGAGCTCAGAGCAAGAAATGGAAGTGGAGCCAGCCAGCAAAGGAGAAGACGGACAAG
 AGGAAGAGGGTGCAGGGCCTGCCACAGTCAAGGAAGAGGGGATGCATCTGGATAACGGGGAGCCTCCTGA
 GGAGAATGAAGAGTCTGCCGGCACAGATTCTGGGCAGGAGCTTGGCATGGAGGGTCAAGACCTGCCTCG
 GGCACCTACGGGGATCGCACTGAGTCCAAGGCTTACGGCTCCATCCACAAGTGCAGGACTGCGGGGA
 AGGAGTTCACGCACACAGGGAACCTTCAAACGGCACATCCGCATCCACACGGGGGAGAAACCTTTCTCATG
 CAGGGAGTGCAGCAAGGCTTTCTCGGACCTGCAGCGTCAAGGCTCATGAGAAGACACAGCCCGTTG
 AAACCTTATGGGTGTGAGGAGTGTGGCAAGAGCTACAGGCTCATCAGCCTGCTGAACCTGCATAAGAAGA
 GGCACCTCGGGGAGGCGCGTACCGCTGCGGGACTGTGGCAAGCTCTTACCACCTTACGGCAACCTCAA
 GCGCCACAGCTGGTACACAGTGGCCAGAAACCTACCAGTGCAGTACTGTGGCCGCTCCTTCTCTGAC
 CCCACCTTAAGATGCGCCACCTGGAGACTCACGACACCGACAAGGAACACAAGTGTCTCTACTGCGACA
 AAAAGTTCAAACAGGTGGGGAACCTGAAGGCCACTTGAAGATCCACATTGCCGATGGCCCTCTTAAGTG
 CCGGGAGTGCGGGAAGCAGTTCACCACCTCAGGGAACCTCAAGCGGCACCTGCGGATCCACAGTGGGGAG
 AAGCCGTACGTATGCACCACTGTGAGCGGCGTGGCCAGCCAGGCGCGCTACAGCGGCACGTCCGGA
 TCCACACGGGTGAGAAGCCGTGCCAGTGTGTGATATGTGGTAAGGCTTTACCAAGCCAGCTCCCTCAT
 CGCCCATGTACGCCAACACACGGGGGAGAAGCCCTACGCTGTGAACGCTGTGGCAAGAGATTTGTCCAG
 TCCAGCCAGTTGGCCAACCACATCCGTACCATGACAACATCCGACCGCACAAAGTGCAGCGTGTGTAGCA
 AGGCCTTCGTGAATGTGGGGACCTGTCCAAGCACATTATCATCCACACCGGAGAGAAGCCTTATTTGTG
 TGACAAATGTGGCCGTGTTTCAACCGGGTAGACAACCTGCGTTCATGTAAAGACCGTGCATCAGGGC
 AAGCGGGCATCAAGATCCTGGAGCCAGAAGAGGGTGGTGGAGTCAAGCGTGGTCACTGTGGACGACATGG
 TCACCCTGGCCACTGAGGCTCTGGCAGCGACAGCGGCTCACTCAGTAAACAGTGGTACCAGTGGGGCCGC
 AGTGACAGCTGACGAGACGGAAGTACTCAAAGCTGAGATCAGCAAAGCTGTCAAGCAAGTGCAGGAAGAA
 GACCCCAACCCACATCCTCTACGCTTGTGATTCCTGTGGGGACAAGTTCCTGGATGCCAATAGCCTAG
 CCCAGCATGTTCCGATCCACACAGCCAGGCACTGGTTCATGTTCCAGACGGATGCGGACTTCTACCAGCA
 GTATGGGCCAGGCAGCACGTGGCCAGCCGGCAGATGCTGCAGGCTGGAGAGCTCGTCTTCCGCTCTAGG
 GATGGGACTGAGGGCAACCCACACTGGCAGAAAGTCCACCCACAGCTCCTGATTGCCTACCACCTGCC
 AG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224036 protein sequence
 Red=Cloning site Green=Tags(s)

MDFPQHSQRVLEQLNQQRQLGLLCDCTFVVDGVDFKAHKAVLAACSEYFKMLFVDQKDVVHLDISNAAGL
 GQVLEFMYTAKLSLSPENVDDVLAVASFLQMQDIVTACHTLKSLAEPSSTTGESADASAVEGGDKRAKDE
 KAAATMLSRGQARGSSSTGPGRELKEERGGQAESASSGAEQTEKADAPREPPVELKPDPTSSMAAAEA
 EALSESSEQEMEVEPASKGEDGQEEEGAGPATVKEEGMHLDNGEPPPEENEEESAGTDSGQELGMEGQNLRS
 GTYGDRTESKAYGSI.IHKCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACKAHEKTHSPL
 KPYGCCECGKSYRLISLLNLHKKRHSGEARYRCGDCGKLFTTSGNLKRHQLVHSGQKPYQCDYCGRSFSD
 PTSKMRHLETHDTEKHKCPHCDKKNQVGNLKAHLKIHADGPLKCRECGKQFTTSGNLKRHLRIHSGE
 KPYVCTHCQRQFADPGALQRHVRHTGEKPCQCVICGKAFTQASSLIAHVRQHTGEKPYVCERCGRFVQ
 SSQLANHIRHHDNIRPHKCSVCSKAFVNVGDL SKHIIHTGEKPYL CDKCGRGNRVDNLRSHVKT VHQG
 KAGIKILEPEEGGEVSVTVDDMVTLATEALAAVTQLTVVPVGAAVTADETEVLKAEISKAVKQVQEE
 DPNTHILYACDSCGDKFLDANSLAQHVRHTAQAALVMFQTDADFYQYGPSTWPAGQMLQAGELVFRPR
 DGTEGQPTLAESPPTAPDCLPPAE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_009541

ORF Size: 2385 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_009541.1](#), [NM_009541.2](#), [NP_033567.2](#)

RefSeq Size: 3415 bp

RefSeq ORF: 2385 bp

Locus ID: 22642

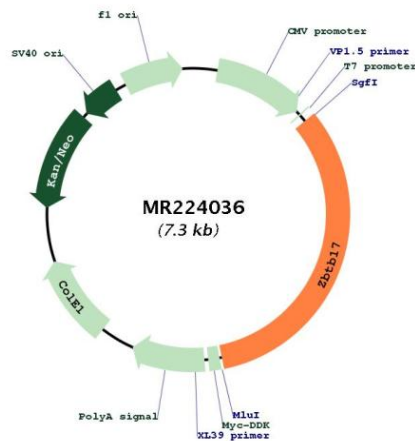
UniProt ID: [Q60821](#)

Cytogenetics: 4 D3

MW: 86.7 kDa

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]

Product images:



Circular map for MR224036