

Product datasheet for **MG224438**

Zbtb46 (NM_027656) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zbtb46 (NM_027656) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zbtb46
Synonyms:	2610019F01Rik; 4933406L05Rik; Btbd4; BZEL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224438 representing NM_027656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAACCGAAAGGAAGATATGGAAATCACTTCTCACTACCGCATCTGCTTCGAGAGCTCAATGAGC
 AGAGGCAGCAGGAGTCTCTGTGATGCGTGCGTGGTGGAGGCAAGGTCTTCAAGGCACATAAGAA
 CGTCTTGCTTGGGAGCAGCCGCTACTTTAAGACGCTCTACTGCCAGGTACAGAAGACATCTGACCAGGCC
 ACCGTCACCTCACTTGACATTGTTACAGCCCAGGGCTTCAAGGCCATTATTGACTTCATGTACTCCGCC
 ATCTGGCTCTCACTAGTAGGAATGTCATCGAGGTGATGTCAGCTGCCAGCTTCTACAGATGACTGACAT
 TGTGCAGGCCTGCCATGATTTCACTCAAGGCTGCACTGGACATCAGCATAAAGTCAGATGCCTCCGATGAA
 CTCTCAGAATTTGAGATTGGCAGCCAGCCAGCAACAGTACAGAGGCGTTGATCTCAGCTGTGATGGCTG
 GAAGGAGTATCTCCCATGGTTGGCTCGGAGAACAAAGTCTGCCAATTCTTCTGGAGACTCTGCCATTGC
 CAGCTGTCATGAAGGAGGAAGCAGCTATGGGAAGGAGGACCAGGAACCCAAAGCTGATGGCCTGATGAC
 GTTCTTTCACAGTCTTTGTGGCCTGGAGATGTAGGCTATGGGTCTCTGCCATCAAGGAAGAACAGATTT
 CACCATCACATTATGGAGGGAGTGAGCTTCCATCTTCCAAGGACACTGCAATACAGAATTCTTTATCAGA
 ACAGGGTTCTGGGGATGGCTGGCAGCCACAGGCCGAGGAAGAATCGGAAAAACAAAGAGACTGTCCGA
 CACATCACCCAGCAGGTGGAGGAGGACAGCCAGGCTGGCTCTCCAGTACCTTCATTCTACCCACATCGG
 GATGGCCTTTCAGCAGCCGAGACTCAAATGTAGACCTGACGGTCACTGAGGCCAGCAGCTTGACAGCCG
 AGGCGAGAGAGCAGAGCTCTATGCTCACATCGATGAGGGCCTACTAGGAGGAGAAACCAGCTACTTGGGC
 CCACCCCTCACCCAGAGAAGGAAGAAGCACTACACAGGCTACTGCAGTGGCCAATCTTCGTGCTGCAC
 TCATGAGTAAGAACAGTCTGCTGCTCACTCAAGGCTGACGTGCTCGGTGATGATGGCTCACTTCTGTTTCA
 GTACCTGCCCAAAGGTGCCCACTCACTGTCTCTGAACGAATTCACGGTGATCAGGAAGAAGTTCAAGTGC
 CCTACTGCAGCTTCTCAGCCATGCACCACTGCATCCTTAAGCGACACATGCGCTCACATACTGGAGAGC
 GGCCCTACCTTGTGAGATCTGTGGCAAGAAGTTCACTAGGAGAGAGCACATGAAGCGACATACTCTGGT
 CCACAGCAAGGACAAGAAGTACGTGTGCAAGTGTGCAGCCGTGTGTTTATGCTGCAGCCAGCGTGGGC
 ATTAAGCACGGCTCTCGTCGCCATGGGGTGTGTGCAGACTGTGCTGGCCGGGTGTGGGCACGCCACTGG
 ACCATGGTGGAGGTGGCAGGGCTCCCCTGAGGCGCTGTTTGTGGTGAAGGGCCGTACCTGGAGGACCC
 GGATGATCCACGAGGGGAGGCTGAGGAGGAGCTGGTTGAGGATGAGGATGAGGACGTGGCCAAGTGAAG
 GATGACGTGGGCTTGGCCATGAGGATGCACTGCTGGGGATGACAAGGATGATGAAGACTCTCCACAGG
 GGCTCACAGCCCTCTGGGAGCCCGATAAAGACTTTGCCTGGATCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224438 representing NM_027656
 Red=Cloning site Green=Tags(s)

MNNRKEDMEITSHYRHLRELNEQRQHGVLCDAVVEGKVFKAHKNVLLGSSRYFKTLYCQVQKTSDDQA
 TVTHLDIVTAQGFKAIDFMYSAPHLALTSRNVIEVMSAASFLQMTDIVQACHDFIKAALDISIKSDASDE
 LSEFEIGTPASNSTEALISAVMAGRSISPWLARRTSPANSSGDSAIAASCHEGGSSYGKEDQEPKADGPDD
 VSSQSLWPGDVGYGSLRIKEEQISPSHYGSELPSKDTAIQNSLSEQSGDGWQPTGRRKNRKNKETVR
 HITQQVEEDSQAGSPVPSFLPTSGWPFSSRDSNVDLTVTEASSLDSRGERAELYAHIDEGLLGGETSYLG
 PPLTPEKEEALHQATAVANLRAALMSKNSLLSLKADVLGDDGSLLEFYLPGAHSLSLNEFTVIRKKFKC
 PYCSFSAMHQCILKRHMRSHTGERPYPCEICGKKFTRREHMKRHTLVHSDKKYVCKVCSRVMFSAASVG
 IKHGSRRHGVCAACAGRGVGTPLDHGGGEGSPEALFAGEGPYLEDPDDPRGEAEELVEDEDEDVAKWK
 DDVGLAHEDALLGDDKDEDDSPQGHSPSGEPDKDFAWIS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_027656

ORF Size: 1800 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

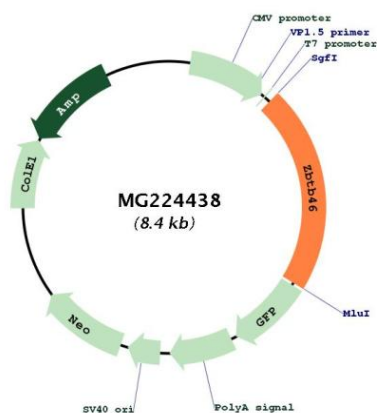
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_027656.2, NP_081932.1</u>
RefSeq Size:	2014 bp
RefSeq ORF:	1803 bp
Locus ID:	72147
UniProt ID:	<u>Q8BID6</u>
Cytogenetics:	2 H4
Gene Summary:	Function as a transcriptional repressor for PRDM1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224438