

## Product datasheet for **RG217923**

### **MIB2 (NM\_080875) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MIB2 (NM_080875) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MIB2
Synonyms:	ZZANK1; ZZZ5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG217923 representing NM\_080875  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTTGGAAGCCAGCGAGGCTAGAGGCCAGTCCCAAAGTTCCAGGCATCAGGGCTGCAGCCCAGGA  
 GCCTCAAGGCGGCCCGGGCGGCGACTGGACGGCCGGACAGGTCCCGAGCAGCCCCGCCAACATGGACCC  
 AGACCCCCAGGCGGGCGTGCAGGTGGGCATGCGGGTGGTGCAGCGCGTGGACTGGAAGTGGGGCCAGCAG  
 GACGGCGCGAGGGCGCGTGGGCACGGTGGTGGAGCTTGGCCGCCACGGCAGCCCTCGACACCCGACC  
 GCACAGTGGTCTGACGTGGGACCAGGGCAGCGCACCAACTACCGCGCCGGCTACCAGGGCGCGCACGA  
 CCTGCTGTGTACGACAACGCCAGATCGGCGTCCGGCACCCCAACATCATCTGTGACTGCTGCAAGAAG  
 CACGGGCTGCGGGGATGCGCTGGAAGTCCCGTGTGTGCCTGGACTACGACCTCTGCACGCAGTGTAC  
 TGCACAACAAGCATGAGCTCGCCACGCCCTTCGACCGCTACGAGACCGCTCACTCGGCCCTGTCACACT  
 GAGTCCCCGCCAGGGCTCCCGAGGATCCCACTAAGGGGCATCTCCAGGGAGCGAAGGTGGTGCAGGC  
 CCCGACTGGGAGTGGGGCTCACAGGATGGAGGGGAAGGGAACCGGGCCGTGTGGTGGACATCCGTGGCT  
 GGGATGTGGAGACAGGCCGGAGTGTGGCCAGCGTGACGTGGGCTGATGGTACCACCAATGTGACCGTGT  
 GGGCTACAAGGGCAAGGTGGACCTCAAGTGTGTGGGCGAGGCAGCGGGCGGCTTCTACTACAAGGACCAC  
 CTCCCAAGGCTCGGAAGCCGGCGGAGCTGCAGCGCAGGGTGAAGTGTGACAGCCAGCCCTTCCAGCACG  
 GGGACAAGGTCAAGTGTCTGCTGGACACTGATGTCTCGGGGAGATGCAGGAAGGCCACGGCGGCTGGAA  
 CCCAGGATGGCGGAGTTATCGGACAGACGGGACCGTGCATCGTATCACGGACCGGGGACGTGCGC  
 GTGCAGTCAACCACGAGACGCGCTGGACCTTCCACCCGGGGCGCTACCAAGCACCACTCTTCTGGG  
 TGGGCGACGTGGTCCGGTTCATCGGCGACCTTGACACAGTGAAGCGGCTGCAGGCTGGCATGGCAGT  
 GACGGACGACATGGCCCCCTGCCCTGGGCGCGCTCGGGAAGGTGGTGAAGTGTGGAGACGGGAACCTG  
 CGTGTAGCAGTGCCTGGTGCAGCGGTGGACCTTACGCCCTCCTGCCTGGTGGCCTACCGGCCGAGGAGG  
 ATGCCAACCTGGACGTGGCCGAGCGCGCCGGGAGAACAAGGCTCACTGAGCGTGGCCCTGGACAAGCT  
 TCGGGCCAGAAAGAGTGACCCAGAGCACCCGGGAAGGCTGGTGGTGGAGGTGGCGCTGGGTAAACGACGC  
 CGGGCTCTGGGCTGCTGCGGAGGCGCCAGAGCAGGTGGACACCAAGAACAAGGCAGGACCGCTCTGC  
 AAGTGGCTGCCTACCTGGGCCAGGTGGAGTTGATACGGCTGCTGTACAAGCCAGGGCGGGCGTGGACCT  
 GCCGGACGACGAGGGCAACACGGCACTGCACTACGCGCCCTGGGGAACAGCCGAGGCCACAGGGT  
 CTCTGAGTGTGGTGGCGGGGACGCCATCAACAGCACCCAGAGCACAGCACTGCACGTGGCCGTGC  
 AGAGGGGCTTCTGGAGGTGGTGCAGGGCCCTGTGTGAGCGCGGCTGTGAGGTCAACCTGCCCGACGCCCA  
 CTCGGACACGCCCTGCACTCCGCCATCTCGGGGGCACTGGAGCCGGCGGCATTGTGAGGTCTCTCAG  
 GAGGTGCCAAACATCGATGTTACCGCCACCAACAGCCAGGGTTTACCCTGCTGCACCATGCCTCCCTCA  
 AGGGTACGCGCTAGCTGTGAGAAAGATTCTGGCTCGGGCGCGCAGCTGGTGGACGCCAAGAAGGAGGA  
 CGGCTTACGGCGCTGCATCTGGCTGCCCTCAACAACCACCGGAGGTGGCCAGATCCTCATCCGGGAG  
 GGCCGCTGTGACGTGAACGTGCGCAACCGGAAGCTGCAGTCCCCGCTGCATCTCGCCGTGCAACAGGCC  
 ACGTGGGGCTGGTGGCGTACTGGTGGACGCTGGGTGCAGTGTCAACGCCGAGGACGAGGAGGGGACAC  
 AGCCCTGCACGTGGCGCTGCAGCGTCACTAGCTGCTGCCCTGGTGGCTGATGGGGCCGGGGGGACCCA  
 GGGCCCTTGCAGTGTGTCCAGGCTACAGGCCTCGGGCCCTCCCGGCAGCGCGGAGCTGACGGTGGGCG  
 CGGCGGTGCGCTGCTTCTGGCGTGGAGGGCGCGACGTGAGCTACCAACCACCGCGGTGCGAGCCC  
 GCTGGACCTGGCCGCGAGGGTGCAGTCAAGGCCCTCAGGGCTGCGCCAGCGCTTCCGGGAGCGG  
 CAGGGCGGGCGGGGCGGGCCCCGGGCCAGGCAACCGTGGGACCCCAACACCGTACGAACCTGC  
 ACGTGGGCGCGCGCGGGGCGGGCCAGGCGCTGAGTGCCTGGTGTGCTCCGAGCTGGCGTGTGGTGT  
 GTTCTCGCCGTGCCAGCACCGCACCGTGTGTGAGGAGTGCAGCGCAGGATGAAGAAGTGCATCAGGTGC  
 CAGGTGGTGTGACGAAGAACTGCGCCAGACGGCTCTGAGGTGGCGAGCGCCGCCCGCCCGCCCGGCC  
 CGCCGCGCAGCTGGTGGAGGAGCTGCAGAGCCGCTACCGGCAGATGGAGGAACGCATCACCTGCCCAT  
 CTGCATCGACAGCCACATCCGCCTCGTGTTCAGTGCAGGACCGCGCATGCGCCCCCTGCGGCTCCGCG  
 CTCAGCGCTGCCCATCTGCCCGACCCATCCGCGACCGCATCCAGATCTTCGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG217923 representing NM\_080875  
 Red=Cloning site Green=Tags(s)

MGWKPSEARGQSQSFQASGLQPRSLKAARRATGRPDRSRAAPPNMDPDPQAGVQVGMRVVRGVDWKWGQQ  
 DGGEGGVTVELGRHGSPTPDRTVVQWDQGRTRTNRYAGYQGAHDLLEYDNAQIGVRHPNIIICDCCKK  
 HGLRGMRWKCRVCLDYDLCTQCYMHNKHELAFDRYETAHSRPVTLSPRQGLPRIPLRGIFQGAKVVRG  
 PDWEWGSQDGGEGKPRVVDIRGWDVETGRSVASVTWADGTTNVYRVGYKGVLDLKCVCGEAAGGFYYKDH  
 LPRLGKPAELQRRVSADSQPFQHGDKVKCLLDTDVLRMQEGHGGWNPRMAEFIGQTGTVHRITDRGDVR  
 VQFNHETRWTFHPGALTKHHSFWVGDVVRVIGDLDTVKRLQAGHGEWTDMPALGRVGVVVKVFDGNL  
 RVAVAGQRWTFSPSCLVAYRPEEDANLVAERARENKSSLSVALDKLRAQKSDPEHPGRLVVEVALGNAA  
 RALGLLRRRPEQVDTKNQGRALQVAAYLGQVELIRLLQARAGVDLPDDEGNTALHYAALGNQPEATRV  
 LLSAGCRADAINSTQSTALHVAVQRGFLEVVRALCERGCVDNLPDAHSDTPLHSAISAGTGAGGIVEVLT  
 EVPNIDVTATNSQGFLLHHSALKGHALAVRKILARARQLVDAKKEDGFTALHLAALNNHREVAQILIRE  
 GRCDVNVNRNKLQSPHLAVQQAHVGLVPLLVDAGCSVNAEEDGDTALHVALQRHQLPLVADGAGGDP  
 GPLQLLSRLQASGLPGSAELTVGAAVACFLALEGADVSYTNHRGRSPLDLAAEGRVLKALQCAQRFRRER  
 QAGGGAAPGPRQTLGTPNTVTNLHVGAAPGPEAAECLVCESELALLVLFSPCQHRTVCEECARRMKKCIRC  
 QVVVSKLRLPDGSEVASAAPAGPPRQLVEELQSRYRQMEERITCPCICIDSHIRLVFQCQGHGACAPCGSA  
 LSACPICRQPIRDRIQIFV

TRTRPLE - GFP Tag - V

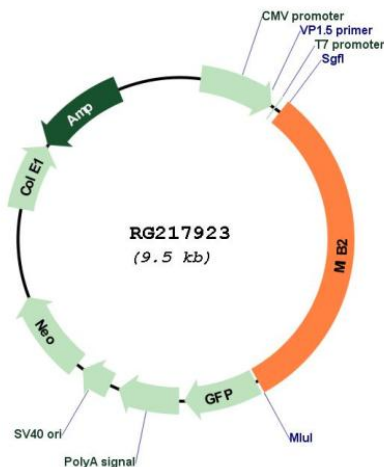
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_080875

ORF Size: 3039 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](mailto: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.

RefSeq: [NM\\_080875.1](#), [NP\\_543151.1](#)

RefSeq Size: 3250 bp

RefSeq ORF: 2868 bp

Locus ID: 142678

UniProt ID: [Q96AX9](#)

Cytogenetics: 1p36.33

**Gene Summary:** The protein encoded by this gene is an E3 ubiquitin protein ligase that mediates ubiquitination of proteins in the Notch signaling pathway. The encoded protein may be a suppressor of melanoma invasion. [provided by RefSeq, Mar 2017]