

## Product datasheet for **RG230640**

### MIB2 (NM\_001170686) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MIB2 (NM_001170686) 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)
ORF Nucleotide Sequence:	>RG230640 representing NM_001170686 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**

ATGGCGGGGGCGCTCCGGCGGGGGCGGGCCCTGGGCTCCCGCCCTTCGGGTCCCACAGTTTCCAGCCGCC  
GCTCTCTCAGTGCCCGGTGGCCAGGAGGGCTGGGAGCCCGAAGCCGTCGCCGAGTCTCTAGGTC  
ACTGGCGCGATGCGGGCCGCTCTCGGCTGATGGTTGGAAGCCAGCGAGGCTAGAGGCCAGTCCCAA  
AGTTTCCAGGCATCAGGGCTGCAGCCCAGGAGCCTCAAGGCGGCCGGCGGGCGACTGGACGGCCGACA  
GGTCCCGAGCAGCCGGCCACCATGGACCCTCTGCCACAGGTCCCGAGCAGCCCGCCAACATGGA  
CCCAGACCCCGAGCGGGCGTGCAGGTGGCATGCGGGTGGTGCAGCGGCTGGACTGGAAGTGGGGCCAG  
CAGGACGGCGGGCAGGGCGGCGTGGGCACGGTGGTGGAGCTTGGCCGCCACGGCAGCCCTCGACCCCG  
ACCGCACAGTGGTTCGTGACAGTGGGACCAGGGCACGCGCACCAACTACCGCGCCGGTACCAGGGCGCGCA  
CGACCTGCTGCTGACGACAACGCCAGATCGGCGTCCGGCACCCCAACATCATCTGTGACTGCTGCAAG  
AAGCAGGGGTGCGGGGGATGCGCTGGAAGTCCGTGTGTGCCTGGACTACGACCTTGCACGCAGTGT  
ACATGCACAACAAGCATGAGCTCGCCACGCCTTCGACCGCTACGAGACCGCTCACTCGCGCCCTGTCAC  
ACTGAGTCCCCGCCAGGGCCCTCCGAGGATCCCACTAAGGGGCATCTTCCAGGGAGCGAAGTGGTGGCA  
GGCCCGGACTGGGAGTGGGCTCACAGGATGGAGGGGAAGGAAACCGGGCCGTGGTGGACATCCGTG  
GCTGGGATGTGGAGACAGGCCGGAGTGTGGCCAGCGTGACGTGGGCTGATGGTACCACCAATGTGTACCG  
TGTGGGCCACAAGGGCAAGGTGGACCTCAAGTGTGGGCGAGGACGGCGGGTCTACTACAAGGAC  
CACCTCCCAAGGCTCGGCAAGCCGGCGGAGCTGCAGCGCAGGGTGGTGGTGCAGCCAGCCCTCCAGC  
ACGGGGACAAGGTCAAGTGTCTGCTGGACACTGATGTCTGCGGGAGATGCAGGAAGGCCACGGCGGCTG  
GAACCCAGGATGGCGGAGACGGGCACCGTGCATCGTATCACGGACCGGGGACGTGCGCGTGCAGTTC  
AACCACGAGACGCGCTGGACCTTCCACCCCGGGCGCTACCAAGCACCCTCTTGGTGGGCGACG  
TGGTCCGGGTATCGGCGACCTTGACACAGTGAAGCGGCTGCAGGCTGGGATGGCGAGTGGACGGACGA  
CATGGCCCTGCCCTGGCCGCGTGGGAAGGTGGTGAAGTGTGGAGACGGGAACCTGCGTGTAGCA



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GTCGCTGGTCAGCGGTGGACCTTCAGCCCCTCCTGCCTGGTGGCCTACCGGCCGAGGAGGATGCCAACCC  
 TGGACGTGGCCGAGCGCGCCCGGAGAACAAAAGCTCACTGAGCGTGGCCCTGGACAAGCTTCGGGCCCA  
 GAAGAGTGACCCAGAGCACCCGGGAAGGCTGGTGGTGGAGGTGGCGCTGGGTAACGCAGCCCGGGCTCTG  
 GACCTGCTGCGGAGGCGCCAGAGCAGGTGGACACCAAGAACCAAGGCAGGACCGCTCTGCAAGTGGCTG  
 CCTACCTGGGCCAGGTGGAGTTGATACGGCTGCTGCTACAAGCCAGGGCGGGCGTGGACCTGCCGGACGA  
 CGAGGGCAACACGGCACTGCCTACGCGGCCCTGGGAACCAAGCCGAGGCCACCAAGGCTCTCTGAGT  
 GCTGGGTGCCGGCGGACGCCATCAACAGCACCCAGAGCACAGCACTGCACGTGGCCGTCAGAGGGGCT  
 TCCTGGAGGTGGTGGCGCCCTGTGTGAGCGCGGCTGTGACGTCAACTGCCCGACGCCACTCGGACAC  
 GCCCTGCACTCCGCCATCTCGCGGGCACTGGAGCCAGCGCATTGTCGAGGTCTCACGGAGGTGCCA  
 AACATCGATGTTACCGCCACCAACAGCCAGGGTTTCACTCTGCTGCACCATGCCTCCCTCAAGGGTCAAG  
 CGTAGCTGTGAGAAAGATTCTGGCTCGGGCGCGGAGCTGGTGGACGCCAAGAAGGAGGACGGCTTCA  
 GCGCTGCATCTGGTGCCTCAACAACCACCGGAGGTGGCCAGATCCTCATCCGGGAGGGCCGCTGT  
 GACGTGAACGTGCGCAACCGAAGCTGCAGTCCCCGCTGCATCTCGCGTGAACAGGCCACGTGGGGC  
 TGGTGGCGCTACTGGTGGACGCTGGGTGCAGTGTCAACCGCGAGGACGAGGAGGGGGACACAGCCCTGCA  
 CGTGGCGTGCAGCGTCACTAGTGTGCCCTGGTGGTGTGATGGGGCCGGGGGGACCCAGGGCCCTTG  
 CAGCTGTGTCCAGGCTACAGGCCCTCGGGCCTCCCCGGCAGCGCGGAGCTGACCGTGGGCGCGCGGCTCG  
 CCTGCTTCTGGCGCTGGAGGGCGCCGACGTGAGCTACACCAACCACCGGTCGGAGCCCGCTGGACCT  
 GGCCGCCGAGGGTGCCTGCTCAAGGCCCTTCAAGGGTGCGCCAGCGCTTCCGGGAGCGGACGGCGGGC  
 GGGGGCGCGGCCCGGGCCAGGCAACCGCTCGGGACCCCAACACCGTGCACGACTGCACGTGGGGC  
 CCGCGCCGGGGCCGAGGCCGCTGAGTGCCTGGTGTGCTCCGAGCTGGCGCTGCTGGTGTCTTCTGCC  
 GTGCCAGCACCGCACCGTGTGTGAGGAGTGCAGCGCAGGATGAAGAAGTGCATCAGGTGCCAGGTGGT  
 GTCAGCAAGAACTGCGCCAGACGGCTCTGAGGTGGCAGCGCCCGCCCGCCCGCCCGCCCGCGCC  
 AGCTGGTGGAGGAGCTGCAGAGCCGCTACCGGCAGATGGAGGAACGCATCACTGCCCATCTGCATCGA  
 CAGCCACATCCGCTCGTGTCCAGTGGCGCACGGCGCATGCGCCCTCGCGCTCCGCGCTCAGCGCC  
 TGCCCATCTGCCCGCAGCCATCCGCGACCGCATCCAGATCTTCGTG

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230640 representing NM\_001170686

Red=Cloning site Green=Tags(s)

MAGALRRGRALGSRPSGPTVSSRRSPQCPVAQEGLGARSRPRVAPRSLARCGPSSRLMGWKPSEARGQSQ  
 SFQASGLQPRSLKAARRATGRPDRSRAARPTMDPSAHSRAAPPNMDPDPQAGVQVGMRVVRGVDWKWGQ  
 QDGGEGGVGTVELGRHGSPTPDRTVVVQWDQGTTRTYRAGYQGAHDLDDYDNAIGVVRHPNIIICDCK  
 KHGLRGMRWKCRVCLDYDLCTQCYMHNKHELAFDRYETAHSRPVTLSPRQGLPRIPLRGIFQGAKVVR  
 GPDWEWGSQDGGEGKPGRVVDIRGWDVETGRSVASVTWADGTTNYYRVGHKGKVDLKCVEAAGGFYYKD  
 HLPRLGKPAELQRRVSADSQPFQHGDKVKCLLDLTDVLRMQEGHGGWNPMAETGTVHRIIDRGDVRVQF  
 NHETRWFHPGALTKHHSFWVGDVVRVIGDLDTVKRLQAGHGEWTDMPALGRVGVVVFVGDGDLRVA  
 VAGQRWTFSPSCLVAYRPEEDANLDVAERARENKSSLSVALDKLRAQKSDPEHPGRLVVEVALGNAARAL  
 DLLRRRPEQVDTKNQRTALQVAAYLGQVELIRLLLQARAGVDLPDDEGNTALHYAALGNQPEATRLLS  
 AGCRADAINSTQSTALHVAVQRFLEVRALCERGCNVLPDAHSDTPLHSAISAGTGASGIVEVLTVEP  
 NIDVTAATNSQGFLLHHSALKGHALAVRKILARARQLVDAKEDGFTALHLAALNNHREVAQILIREGRC  
 DVNVRNRKLSPLHLAVQAHVGLVPLLVDAGCSVNAEDEEGDTALHVALQRHQLLPLVADGAGGDPGPL  
 QLLSRLQASGLPGSAELTVGAACFLALEGADVSYTNHRGRSPLDLAAEGRVLKALQGCAQRFRRERQAG  
 GGAAPGPRQTLGTPNTVNLHVGAAPGPEAAECLVCESELALLVLFSPCQHRTVCEECARRMKKCIQCQV  
 VSKLRLPDGSEVASAAPGPPRQLVEELQSRYRQMEERITCPICIDSHIRLVFQCGHGACAPCGSALSA  
 CPICRQPIRDRIQIFV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001170686

**ORF Size:** 3198 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\\_001170686.1](#), [NP\\_001164157.1](#)

**RefSeq Size:** 3338 bp

**RefSeq ORF:** 2856 bp

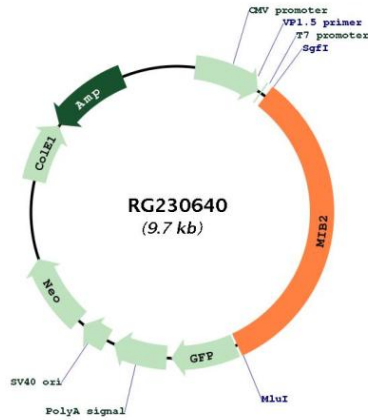
**Locus ID:** 142678

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]

**Product images:**



Circular map for RG230640