

## Product datasheet for **RG230630**

### MIB2 (NM\_001170687) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MIB2 (NM_001170687) 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:	>RG230630 representing NM_001170687 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGGGCGCTCCGGCGGGGGCGGGCCCTGGGCTCCCGCCCTTCGGGTCCCACAGTTTCCAGCCGCC  
GCTCTCCTCAGTGCCCGGTGGCCAGGAGGGCTGGGAGCCCGAAGCCGTCGCCGAGTGCCTCTAGGTC  
ACTGGCGCGATGCGGGCCGCTCTCGGCTGATGGTTGGAAGCCAGCGAGGCTAGAGGCCAGTCCCAA  
AGTTTCCAGGCATCAGGGCTGCAGCCCAGGAGCCTCAAGGCGGCCGGCGGGGCGACTGGACGGCCGGACA  
GGTCCCGAGCAGCCCGCCAACATGGACCCAGACCCCGAGGCGGGCGTGCAGGTGGCATGCGGGTGGT  
GCGCGGGCTGGACTGGAAGTGGGGCCAGCAGGACGGCGGGCAGGGCGGGCTGGGCACGGTGGTGGAGCTT  
GGCCGCCACGGCAGCCCTCGACACCCGACCGCACAGTGGTCTGTCAGTGGGACAGGGCACGGCACCA  
ACTACCGCGCCGGCTACCAGGGCGCGCACGACCTGCTGCTGTACGACAACGCCAGATCGGGCTCCGGCA  
CCCCAACATCATCTGTGACTGCTGCAAGAAGCAGGGCTGCGGGGGATGCGCTGGAAGTGCCGTGTGTGC  
CTGGACTACGACCTTGCACGCAGTGTACATGCACAACAAGCATGAGCTCGCCACGCCTTCGACCGCT  
ACGAGACCGCTCACTCGCGCCCTGTCACACTGAGTCCCCGCCAGGGCCTCCCGAGGATCCCACTAAGGGG  
CATCTTCCAGGGAGCGAAGGTGGTGGCAGGCCCCGACTGGGAGTGGGGCTCACAGGATGGAGGGGAAGGG  
AAACCGGGCCGTGTGGTGGACATCCGTGGCTGGGATGTGGAGACAGGCCGGAGTGGCCAGCGTGACCT  
GGGCTGATGGTACCACCAATGTGTACCGTGTGGGCCACAAGGGCAAGGTGGACCTCAAGTGTGGGGCGA  
GGCAGCGGGCGGCTTCTACTACAAGGACCACCTCCCAAGGCTCGGCAAGCCGGCGGAGCTGCAGCGCAGG  
GTGAGTGTGACAGCCAGCCCTCCAGCACGGGACAAGGTCAAGTGTCTGCTGGACACTGATGTCTGC  
GGGAGATGCAGGAAGGCCACGGCGGCTGGAACCCAGGATGGCGGAGTTTATCGGACAGACGGGCACCGT  
GCATCGTATCACGGACCGGGGACGTGCGCGTGCAGTTCAACCACGAGACGCGCTGGACCTTCCACCCC  
GGGGCGCTACCAAGCACCCTCTTCTGGTGGGCGACGTGGTCCGGGTATCGGCGACCTTGACACAG  
TGAAGCGGCTGCAGGCTGGCATGGCGAGTGGACGGACGACATGGCCCTGCCCTGGGCCGCGTGGGAA  
GGTGGTAAAGTGTGGAGACGGGAACCTGCGTGTAGCAGTGCCTGGTACGCGGTGGACCTTACGCCCC



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TCCTGCCTGGTGGCCTACCGGCCGAGGAGGATGCCAACCTGGACGTGGCCGAGCGGCCCGGGAGAACA  
 AAAGCTACTGAGCGTGGCCCTGGACAAGCTTCGGGCCAGAAAGAGTGACCCAGAGCACCCGGGAAGGCT  
 GGTGGTGGAGGTGGCGCTGGTAACGCAGCCCGGGCTCTGGACCTGCTGCGGAGGCGCCAGAGCAGGTG  
 GACACCAAGAACCAAGGCAGGACCGCTCTGCAAGTGGCTGCTACCTGGCCAGGTGGAGTTGATACGGC  
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 GGTTCACCTGCTGCACCATGCCTCCCTCAAGGGTACGCGCTAGCTGTGAGAAAGATTCTGGCTCGGG  
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 CCGCGAGGTGGCCAGATCCTCATCCGGGAGGGCCGCTGTGACGTGAACGTGCGCAACCGGAAGCTGAC  
 TCCCCGCTGCATCTCGCGTGAACAGGCCACGTGGGGTGGTCCGCTACTGGTGACCTGGGTGCA  
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 TGAGTACACCAACCACCGCGTTCGGAGCCCGCTGGACCTGGCCGCCGAGGGTCGCGTGTCAAGGCCCT  
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 TGGTGTGCTCCGAGCTGGCGTGTGGTGTCTTCTCGCCGTGCCAGCACCGCACCGTGTGTGAGGAGTG  
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 GAGGTGGCGAGCGCCGCCCGCCCGCCCGCCGCGCCAGCTGGTGGAGGAGCTGCAGAGCCGCTACC  
 GGCAGATGGAGGAACGCATCACCTGCCCATCTGCATCGACAGCCACATCCGCCTCGTGTCCAGTGC  
 CCACGGCGCATGCGCCCTCGCGCTCCGCGCTCAGCGCTGCCCATCTGCCCGCAGCCATCCGCGAC  
 CGCATCCAGATCTTCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230630 representing NM\_001170687

Red=Cloning site Green=Tags(s)

MAGALRRGRALGSRPSGPTVSSRRSPQCPVAQEGLGARSRPRVAPRSLARCGPSSRLMGWKPSEARGQSQ  
 SFQASGLQPRSLKAARRATGRPDRSRAAPPNMDPDQAGVQVGMRVVRGVDWKWQDGGEGGVGTVVVEL  
 GRHGSPSTPDRTVVVQWDQGTRTNYRAGYQGAHDL LLDYNAQIGVRHPNII CDCCCKKHGLRGMRWKCRVC  
 LDYDLCTQCYMHNKHEL AHAFDRYETAHSRPVTLSPRQGLPRIPLRGIFQGAKVVRGPDWEWSQDGGEG  
 KPGRVVDIRGWDVETGRSVASVTWADGTTNYYRVGHKGKVDLKC VGEAAGGFYYKDHL PRLGKPAELQRR  
 VSADSQPFQHGDKVKCLLDTDVLRMQEGHGGWNPRMAEF IGQTGTVHRI TDRGDVVRVQFNHETRWTFHP  
 GALTKHHSFVWGDVVRVIGDLDTVKRLQAGHGEWTD DMAPALGRVGVVVFVGDGNLRVAVAGQRWTFSP  
 SCLVAYRPEEDANLDVAERARENKSSLSVALDKLRAQKSDPEHPGRLVVEVALGNAARALDLLRRRPEQV  
 DTKNQGRALQVAAYLGQVELIRLLQARAGVDLPDDEGNTALHYAALGNQPEATRVL L SAGCRADAINS  
 TQSTALHVAVQRGFLEVVRALCERGC DVNLPDAHSDTPLHSAISAGTGASGIVEVL TEVPNIDVTATNSQ  
 GFTLLHSHSLKGHALAVRKILARARQLVD AKKEDGFTALHLAALNNHREVAQIL IREGRC DVNVRNRLQ  
 SPLHLAVQQAHVGLVPLLVDAGCSVNAEDEEGDTALHVALQRHQLLPLVADGAGGDPGPLQLL SRLQASG  
 LPGSAELTVGAAVACFLALEGADVSYTNHRGRSPLDLAAEGRVLKALQGCAQRF RERQAGGGAAPGPRQT  
 LGTPNTVTNLHVGAAPGPEAAECLVCESELALLVLFSPCQHRTVCEE CARRMKKCI RCQVVVSKKLRPDGS  
 EVASAAPAGPPRQLVEELQSRYRQMEERITC PICIDSHIRLVFQC GHGACAPCGSAL SACPICRQPIRD  
 RIQIFV

TRTRPLE - GFP Tag - V

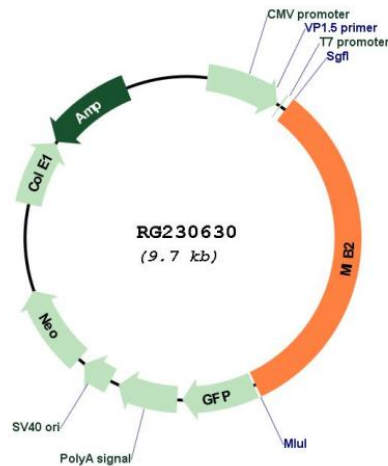
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001170687

ORF Size: 3168 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001170687.1, NP_001164158.1</u>
<b>RefSeq Size:</b>	3308 bp
<b>RefSeq ORF:</b>	2868 bp
<b>Locus ID:</b>	142678
<b>UniProt ID:</b>	<u>Q96AX9</u>
<b>Cytogenetics:</b>	1p36.33
<b>Gene Summary:</b>	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]