

Product datasheet for **MG227236**

Mib1 (NM_144860) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mib1 (NM_144860) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mib1
Synonyms:	DIP-1; E430019M12Rik; Mib; mKIAA1323
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227236 representing NM_144860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTAAC**TC**CCGCAACAACCGAGTGATGGTGGAGGGGGT**CGGC**CGCCCGCTAGTGC**CG**CGCCCGGACT
GGAAGTGGGGCAAGCAGGACGGCGGGCAGGGCCATGTAGGCACTGTACGGAGCTTCGAGAGTCCGGAGGA
GGTCGTGGTGGTGTGGACAACGGCACGGCCGCAACTACCGCTGCTCAGGGCCACGACTGCGTATC
CTGGACAGCGCGCCACCGGCATCAAGCATGATGGAATATGTGTGATACCTGCCCCAGCAACCAATCA
TTGGCATTTCGATGAAATGTGCAGAGTGCACCAATTATGATTTGTGCACTGTTTGTATCATGGAGATAA
ACATCACTTAAGGCATCGCTTTATAGGATTACTACACCAGGAAGTGAACGGGTTCTGTTAGAGTCTCGT
AGAAAACTAAGAAGATTACAGCCAGAGGAATCTTTGCTGGTGCCAGAGTGGTGCAGGAGTGGACTGGC
AGTGGGAAGATCAAGATGGAGGCAATGGGCGTAGAGGAAAGGTCACGGAGATCCAGGACTGGAGTGCATC
CAGCCACACAGTGCAGCCTATGTTCTCTGGGATAACGGTGCTAAGAACCTTTACAGGGTTGGCTTTGAG
GGCATGTCTGATCTCAAGTGTGTCCAGGATGCCAAGGAGGTTCTTTCTACAGAGATCATTGCCCTGTGC
TAGGTGAGCAGAATGGCAACAGGAATCCTGGTGGATTGCAGATTGGTACCTGGTAAATATAGACCTTGA
TCTAGAAATTGTCCAGTCTTTACAGCACGGTCA**TGG**AGGATGGACCGATGGCATGTTTGAGACTTTAACT
ACA**ACT**GGAACCGTCTGTGGCATTGATGAAGATCATGACATTGTAGTACAGTATCCAAGTGGCAATAGAT
GGACTTTCAATCCTGCTGTTCTCACTAAGGCAAACATTGTCCGAAGTGGGGATGCTGCACAGGGTGCAGA
AGGAGGCACCTCACAGTTTCAAGTGGGTGATCTTGTCAGTGGTGGTATGATCTGAAAGAATTA**AACT**
CTCCAAAGAGGACATGGTGAATGGGCTGAAGCAATGCTTCCA**ACT**TTAGGTAAAGTTGGCCGAGTACAAC
AGATTTATTCGGACAGTACTTAAAGGTGGAAGTCTGTGGAACATCTTGACGTATAACCTGCAGCAGT
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AATGCAAGCTGCTAGTCAGAACGGACATGTTGATATTTGAAATTA**CT**TTTGAAGCAAAATGTTGATGTT



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GAAGCAGAGGATAAAGATGGAGATCGAGCCGTTACCATGCAGCCTTTGGAGATGAGGGTCTGTCATAG
 AAGTCCTACACCGAGGCAGTGTGACCTGAATGCTCGTAATAAGCGTAGACAGACGCCTCTTCATATTGC
 TGTCAATAAAGGTCATCTTCAAGTTGTGAAGACTTTGTTGGATTTTGGTTGTCATCCCAGTCTCCAGGAT
 TCTGAAGGTGACACCCCTCTCCATGATGCCATAAGTAAGAAACGGGATGACATTCTGGCAGTTCTTCTGG
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 TGAACTGTGCCAGCCTGATGAAAAAGTGTGTGCAAGTGTGCGGCAGTGGTTGAGCGGAGGGTGCCTTTC
 ATCACGTGCTGTGGTGGCAAGAGCTCAGAAGACCCCTCTGATGAAATCTCAAGTGGGAATATCCCAGTGC
 TGCAGAAGGACAAAGACAACACCAATGTTAACGCAGATGTGCAGAACTGCAGCAGCAGCTTCCAGGACAT
 TAAGGAGCAGACCATGTGCCCTGTGTGCTTGGATCGCCTGAAGAACATGATTTTCTCTGTGGCCATGGA
 ACATGCCAGCTCTGTGGAGACCGGATGAGTGAATGCCCAATTTGTGCGAAGGCAATTGAACGAAGGATTC
 TTTGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG227236 representing NM_144860
 Red=Cloning site Green=Tags(s)

MSNSRNNRVMVEGVGARVVRGPDWKWKQDGGEGHVGTVRSFESPEEVVVVDNGTAANYRCSGAYDLRI
 LDSAPTGIKHDGTMCDTCRQPIIGIRWKAECTNYDLCTVYHGDKHHLRHRFYRITTPGSEVLLLESR
 RKSKKITARGIFAGARVVRGVDWQWEDQDGGNGRRGKVTEIQDWSASSPHSAAYVLWDNGAKNLYRVGFE
 GMSDLKCVQDAKGSFYRDHCPVLGEQNGNRNPGGLQIGDLVNIIDLLEIVQSLQHGHGGWTDGMFETLT
 TTGTVCGIDEDHDIVVQYPSGNRWFNPVAVLTKANIVRSGDAAQGAEGGTSQFQVGDVQVYDLERIKL
 LQRGHGEWAEAMLPTLGKVGRVQQIYSDSLKVEVCGTSWTYNPAAVSKVAPAGSAISNASGERLSQLLK
 KLFETQESGDLNEELVAAAANGDVAKVEDLLKRPDVDVNGQCAGHTAMQAASQNGHVDILKLLKQNVQV
 EAEDKDGDRAVHHAFFGDEGAVIEVLHRGSADLNARNKRRQTPHLIAVNKGHLQVVKTLDFGCHPSLQD
 SEGDTPLHDAISKRRDDILAVLLEAGADVTITNNGFNALHHAALRGNPSAMRVLLSKLPRPWIVDEKDD
 DGYTALHLAALNNHVEVAELLVHQGNANLDIQNVNQQTALHLAVERQHTQIVRLLVRAGAKLDIQDKDGD
 TPLHEALRHHTLSQLRQLQDMQDVGVDAAWEP SKNTLIMGLGTQGAEEKSAASIAFLAANGADLSIRN
 KKGQSPLDLPDPSLCKALAKCHKEKVGKVGSRSPSMISNDSETLEECMVCSMDMKRDTLFGPCGHIATC
 SLCSRPVKKCLICKEQVQSRTKIEECVVCSDKKA AVLFPQCGHMCACENCASLMKKCVQCRAVVERRVFP
 ITCCGGKSSSEDPSEISSGNIPVLQKDKDNTNVNADVQKLQQQLDIKEQTMCPVCLDRLKNMIFLCGHG
 TCQLCGDRMSECPICRKAIERILLY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_144860.2</u> , <u>NP_659109.2</u>
RefSeq Size:	3793 bp
RefSeq ORF:	3021 bp
Locus ID:	225164
UniProt ID:	<u>Q80SY4</u>
Cytogenetics:	18 A1
Gene Summary:	E3 ubiquitin-protein ligase that mediates ubiquitination of Delta receptors, which act as ligands of Notch proteins. Positively regulates the Delta-mediated Notch signaling by ubiquitinating the intracellular domain of Delta, leading to endocytosis of Delta receptors. Involved in ubiquitination of centriolar satellite CEP131, CEP290 and PCM1 proteins and hence inhibits primary cilium formation in proliferating cells. Mediates 'Lys-63'-linked polyubiquitination of TBK1, which probably participates in kinase activation (By similarity). Probably mediates ubiquitination and subsequent proteasomal degradation of DAPK1, thereby antagonizing anti-apoptotic effects of DAPK1 to promote TNF-induced apoptosis. [UniProtKB/Swiss-Prot Function]