

## Product datasheet for RC221377

### MIB1 (NM\_020774) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MIB1 (NM_020774) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MIB1
Synonyms:	DIP-1; DIP1; LVNC7; MIB; ZZANK2; ZZZ6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221377 representing NM_020774 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTAACTCCCGGAATAACCGGGTGATGGTGGAAAGGGTTGGCGCTCGGGTAGTGC GCGGCCCGGACT  
GGAAGTGGGGGAAGCAGGACGGCGGGCAGGGCCATGTGGGCACCGTCCGGAGCTTCGAGAGCCCCGAGGA  
GGTGGTGGTAGTGTGGGACAACGGCACAGCTGCCAACTACCGCTGCTCCGGGGCTTACGACCTCCGCATC  
CTGGACAGCGCGCCACCAGGCATCAAGCATGATGGAACCATGTGTGATACCTGCCCCAGCAACCAATCA  
TTGGCATTTCGATGGAAGTGTGCAGAGTGTACAAATTATGATTTGTGCACAGTGTGTTATCATGGAGATAA  
ACATCATTTAAGACATCGCTTTTACCGAATTACTACACCGGGAAGTGAAGGGTTCTGTTAGAGTCTCGT  
AGGAAATCTAAGAAGATTACAGCCAGAGGAATCTTTGCAGGTGCCAGAGTGGTGGCAGGAGTGGACTGGC  
AGTGGGAAGATCAAGATGGAGGAAATGGACGTAGGGGAAAGGTAACAGAAATCCAGGACTGGAGTGCATC  
AAGCCCATAGCGCAGCATATGTCTCTGGGATAATGGTGCTAAGAACCTTTACAGAGTTGGCTTTGAG  
GGCATGTCTGATCTGAAATGTGTCCAGGATGCCAAGGGAGGTTCTTTCTACAGAGATCACTGCCCTGTGC  
TAGGTGAGCAGAATGGCAACAGGAATCCTGGTGGATTGCAGATTGGTGACCTGGTAAATATAGATCTCGA  
CCTCGAAATTGTACAGTCTTTGCAGCATGGTTCATGGAGGATGGACTGATGGAATGTTTGAGACTTTAACT  
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AGGAGGCACCTCGCAGTTTCAAGTGGGTGATCTTGTACAAGTTTGTATGACCTGGAACGAATTAACCTT  
CTACAAAGAGGACATGGAGAATGGGCTGAAGCGATGCTTCCAACCTTAGGTAAAGTTGGCCGAGTACAAC  
AGATTTATTCAGACAGTGATTTAAAGGTGGAAGTTTGTGGAACATCTTGACATAACAATCCAGCAGCAGT  
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AAATTATTTGAAACCAAGAATCTGGTGACCTCAATGAAGAATTAGTTAAGGCTGCTGCCAATGGAGATG  
TTGCTAAAGTGGAAAGTTTGTCTAAAAGACCAGATGTGGATGTAATGGGCAATGTGCTGGCCACACAGC  
TATGCAAGCTGCTAGTCAGAATGGACATGTTGACATTTTGAAGTACTTTTGAAGCAAAACGTGGATGTC



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GAAGCAGAGGATAAAGATGGTGATAGAGCAGTTCACCATGCAGCTTTTGGAGATGAAGGCCTGTTATAG  
 AAGTACTACATCGAGGTAGTGTGATTTGAATGCTCGAAACAAGCGCCGACAGACACCATTTCATATTGC  
 TGTCAATAAAGGTCATCTTCAAGTTGTGAAGACTTTATTGGACTTTGGCTGTCATCCCAGTCTCCAGGAT  
 TCTGAAGTGATACCCCTCTTATGATGCAATAAGTAAGAAACGTGATGATATCCTAGCAGTTCTTTTGG  
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 TTTTGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC221377 representing NM\_020774  
 Red=Cloning site Green=Tags(s)

MSNSRNNRVMVEGVGARVVRGPDWKWGKQDGGEGHVGTVRSFESPEEVVVWDNGTAANYRCSGAYDLRI  
 LDSAPTGIKHDGTMCDTCRQPIIGIRWKAECTNYDLCTVYHGDKHHLRHRFYRITTPGSEVLLLESR  
 RKSKKITARGIFAGARVVRGVDWQWEDQDGGNGRRGKVTETIQDWSASSPHSAAYVLWDNGAKNLYRVGFE  
 GMSDLKCVQDAKGGSFYRDHCPVLGEQNGNRNPGGLQIGDLVNIIDLLEIVQSLQHGHGGWTDGMFETLT  
 TTGTVCGIDEDHDIVVQYPSGNRWFNPVAVLTKANIVRSGDAAQGAEGGTSQFQVGDLVQVCYDLERIKL  
 LQRGHGEWAEAMLPTLGKVGVRVQIYSDSLKVEVCGTSWTYNPAAVSKVASAGSAISNASGERLSQLLK  
 KLFETQESGDLNEELVAAAANGDVAKVEDLLKRPDVDVNGQCAGHTAMQAASQNGHVDILKLLKQNVQV  
 EAEDKDGDRAVHHAFFGDEGAVIEVLHRGSADLNARNKRRQTPHLIAVKNKGHLQVVKTLDFGCHPSLQD  
 SEGDTPLHDAISKRRDDILAVLLEAGADVTITNNGFNALHHAALRGNPSAMRVLLSKLPRPWIVDEKDD  
 DGYTALHLAALNNHVEVAELLVHQGNANLDIQNVNQQTALHLAVERQHTQIVRLLVRAGAKLDIQDKDGD  
 TPLHEALRHHTLSQLRQLQDMQDVGVDAAWEPSKNTLIMGLGTQGAEEKSAASIAFLAANGADLSIRN  
 KKGQSPLDLPDPNLCKALAKCHKEKVSQVGSRSMSISNDSETLEECMVCSMDMKRDTLFGPCGHIATC  
 SLCSPRVKKCLICKEQVQSRTKIEECVVCSDKKAQVLFQPCGHMCACENCANLMMKCVQCRAVVERRVFP  
 IMCCGGKSSSEDATDDISSGNIPVLQKDKDNTNVNADVQKLQQLQDIKEQTMCPVCLDRLKNMIFLCGHG  
 TCQLCGDRMSECPICRKAIERILLY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6166\\_c10.zip](https://cdn.origene.com/chromatograms/mk6166_c10.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_020774

**ORF Size:** 3018 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\\_020774.4](#)

**RefSeq Size:** 9308 bp

**RefSeq ORF:** 3021 bp

**Locus ID:** 57534

UniProt ID: [Q86YT6](#)

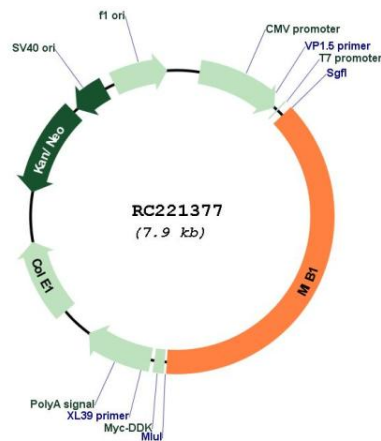
Cytogenetics: 18q11.2

Protein Families: Druggable Genome

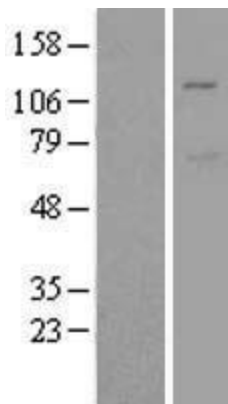
MW: 110 kDa

**Gene Summary:** This gene encodes a protein containing multiple ankyrin repeats and RING finger domains that functions as an E3 ubiquitin ligase. The encoded protein positively regulates Notch signaling by ubiquitinating the Notch receptors, thereby facilitating their endocytosis. This protein may also promote the ubiquitination and degradation of death-associated protein kinase 1 (DAPK1). [provided by RefSeq, Jun 2013]

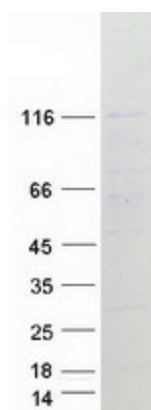
### Product images:



Circular map for RC221377



Western blot validation of overexpression lysate (Cat# [LY412329]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221377 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MIB1 protein (Cat# [TP321377]). The protein was produced from HEK293T cells transfected with MIB1 cDNA clone (Cat# RC221377) using MegaTran 2.0 (Cat# [TT210002]).