**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTAACTCCCGGAATAACCGGGTGATGGTGGAAGGGGTTGGCGCTCGGGTAGTGCGCGGCCCGGACT
GGAAGTGGGGGAAGCAGGACGGCGGCGAGGGCCATGTGGGCACCGTCCGGAGCTTCGAGAGCCCCGAGGA
GGTGGTGGTAGTGTGGGACAACGGCACAGCTGCCAACTACCGCTGCTCCGGGGCTTACGACCTCCGCATC
CTGGACAGCGCGCCCACCGGCATCAAGCATGATGGAACCATGTGTGATACCTGCCGCCAGCAACCAATCA
TTGGCATTCGATGGAAGTGTGCAGAGTGTACAAATTATGATTTGTGCACAGTGTGTTATCATGGAGATAA
ACATCATTTAAGACATCGCTTTTACCGAATTACTACACCGGGAAGTGAGAGGGTTCTGTTAGAGTCTCGT
AGGAAATCTAAGAAGATTACAGCCAGAGGAATCTTTGCAGGTGCCAGAGTGGTGCGAGGAGTGGACTGGC
AGTGGGAAGATCAAGATGGAGGAAATGGACGTAGGGGAAAGGTAACAGAAATCCAGGACTGGAGTGCATC
AAGCCCACATAGCGCAGCATATGTCCTCTGGGATAATGGTGCTAAGAACCTTTACAGAGTTGGCTTTGAG
GGCATGTCTGATCTGAAATGTGTCCAGGATGCCAAGGGAGGTTCTTTCTACAGAGATCACTGCCCTGTGC
TAGGTGAGCAGAATGGCAACAGGAATCCTGGTGGATTGCAGATTGGTGACCTGGTAAATATAGATCTCGA
CCTCGAAATTGTACAGTCTTTGCAGCATGGTCATGGAGGATGGACTGATGGAATGTTTGAGACTTTAACT
ACAACTGGAACTGTTTGTGGCATTGATGAAGATCATGACATTGTAGTACAGTATCCAAGTGGCAATAGGT
GGACCTTCAATCCTGCTGTTCTCACTAAAGCGAACATTGTCCGAAGTGGAGATGCTGCTCAGGGTGCAGA
AGGAGGCACCTCGCAGTTTCAAGTGGGTGATCTTGTACAAGTTTGTTATGACCTGGAACGAATTAAACTT
CTACAAAGAGGACATGGAGAATGGGCTGAAGCGATGCTTCCAACTTTAGGTAAAGTTGGCCGAGTACAAC
AGATTTATTCAGACAGTGATTTAAAGGTGGAAGTTTGTGGAACATCTTGGACATACAATCCAGCAGCAGT
TTCCAAGGTGGCATCTGCAGGATCAGCCATTAGCAATGCATCTGGTGAAAGACTCTCACAACTCCTGAAG
AAATTATTTGAAACCCAAGAATCTGGTGACCTCAATGAAGAATTAGTTAAGGCTGCTGCCAATGGAGATG
TTGCTAAAGTGGAAGATTTGCTTAAAAGACCAGATGTGGATGTAAATGGGCAATGTGCTGGCCACACAGC
TATGCAAGCTGCTAGTCAGAATGGACATGTTGACATTTTGAAGTTACTTTTGAAGCAAAACGTGGATGTC
```

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

GAAGCAGAGGATAAAGATGGTGATAGAGCAGTTCACCATGCAGCTTTTGGAGATGAAGGCGCTGTTATAG
AAGTACTACATCGAGGTAGTGCTGATTTGAATGCTCGAAACAAGCGCCGACAGACACCACTTCATATTGC
TGTCAATAAAGGTCATCTTCAAGTTGTGAAGACTTTATTGGACTTTGGCTGTCATCCCAGTCTCCAGGAT
TCTGAAGGTGATACCCCTCTTCATGATGCAATAAGTAAGAAACGTGATGATATCCTAGCAGTTCTTTTGG
AAGCTGGAGCAGATGTTACCATCACAAACAATAATGGATTTAATGCTCTGCATCATGCTGCACTAAGGGG
AAATCCCAGTGCAATGCGTGTTTTACTATCTAAATTACCAAGACCATGGATTGTGGATGAGAAGAAAGAT
GATGGTTATACTGCCTTACATCTGGCTGCCCTTAATAATCACGTAGAAGTGGCTGAACTGTTGGTACATC
AGGGTAATGCAAACCTGGATATCCAGAATGTGAACCAACAAACTGCCCTACACCTTGCTGTTGAACGACA
GCATACCCAGATTGTTAGGCTTTTGGTCCGTGCAGGTGCCAAGCTTGATATTCAGGATAAGGATGGGGAT
ACTCCTTTGCATGAAGCTCTAAGGCATCACACTTTGTCTCAGCTACGTCAGCTCCAAGATATGCAAGATG
TGGGGAAGGTGGATGCTGCCTGGGAGCCATCCAAAAACACGTTAATAATGGGACTTGGTACCCAGGGGGC
AGAGAAGAAGAGTGCAGCATCTATTGCCTGTTTCTTGGCAGCCAATGGTGCTGACCTGAGCATTCGAAAT
AAGAAGGGTCAATCGCCACTTGATCTCTGTCCTGATCCGAATCTCTGCAAAGCACTGGCAAAGTGTCATA
AGGAAAAAGTCAGTGGTCAAGTGGGTTCTCGGAGTCCTTCTATGATTAGTAATGATTCTGAAACCTTAGA
AGAGTGTATGGTGTGCTCAGATATGAAGAGAGATACTCTTTTTGGTCCATGTGGACATATTGCTACCTGT
TCTTTATGTTCTCCACGTGTCAAGAAATGCCTCATCTGTAAAGAACAGGTTCAATCCAGGACAAAGATTG
AAGAATGTGTGGTATGCTCTGACAAGAAAGCAGCTGTTCTTTTTCAACCCTGTGGCCACATGTGTGCTTG
TGAGAACTGTGCTAACCTGATGAAAAAGTGTGTGCAGTGTCGAGCAGTAGTTGAACGAAGAGTGCCTTTC
ATTATGTGCTGTGGAGGGAAAAGTTCAGAAGATGCCACTGATGATATCTCAAGTGGGAATATTCCAGTAT
TACAAAAGGACAAGGATAATACCAATGTCAATGCAGATGTGCAAAAGTTGCAGCAACAGTTACAAGACAT
TAAAGAGCAGACAATGTGCCCTGTGTGTCTAGATCGTCTGAAGAATATGATTTTCCTTTGTGGTCACGGA
ACCTGTCAACTCTGTGGAGACCGCATGAGTGAATGTCCTATCTGTCGCAAGGCTATTGAACGAAGGATTC
TTTTGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC221377 representing NM_020774
Red=Cloning site Green=Tags(s)

MSNSRNNRVMVEGVGARVVRGPDWKWGKQDGGEGHVGTVRSFESPEEVVVVWDNGTAANYRCSGAYDLRI
LDSAPTGIKHDGTMCDTCRQQPIIGIRWKCAECTNYDLCTVCYHGDKHHLRHRFYRITTPGSERVLLESR
RKSKKITARGIFAGARVVRGVDWQWEDQDGGNGRRGKVTEIQDWSASSPHSAAYVLWDNGAKNLYRVGFE
GMSDLKCVQDAKGGSFYRDHCPVLGEQNGNRNPGGLQIGDLVNIDLDLEIVQSLQHGHGGWTDGMFETLT
TTGTVCGIDEDHDIVVQYPSGNRWTFNPAVLTKANIVRSGDAAQGAEGGTSQFQVGDLVQVCYDLERIKL
LQRGHGEWAEAMLPTLGKVGRVQQIYSDSDLKVEVCGTSWTYNPAAVSKVASAGSAISNASGERLSQLLK
KLFETQESGDLNEELVKAAANGDVAKVEDLLKRPDVDVNGQCAGHTAMQAASQNGHVDILKLLLKQNVDV
EAEDKDGDRAVHHAAFGDEGAVIEVLHRGSADLNARNKRRQTPLHIAVNKGHLQVVKTLLDFGCHPSLQD
SEGDTPLHDAISKKRDDILAVLLEAGADVTITNNNGFNALHHAALRGNPSAMRVLLSKLPRPWIVDEKKD
DGYTALHLAALNNHVEVAELLVHQGNANLDIQNVNQQTALHLAVERQHTQIVRLLVRAGAKLDIQDKDGD
TPLHEALRHHTLSQLRQLQDMQDVGKVDAAWEPSKNTLIMGLGTQGAEKKSAASIACFLAANGADLSIRN
KKGQSPLDLCPDPNLCKALAKCHKEKVSGQVGSRSPSMISNDSETLEECMVCSDMKRDTLFGPCGHIATC
SLCSPRVKKCLICKEQVQSRTKIEECVVCSDKKAAVLFQPCGHMCACENCANLMKKCVQCRAVVERRVPF
IMCCGGKSSEDATDDISSGNIPVLQKDKDNTNVNADVQKLQQQLQDIKEQTMCPVCLDRLKNMIFLCGHG
TCQLCGDRMSECPICRKAIERRILLY

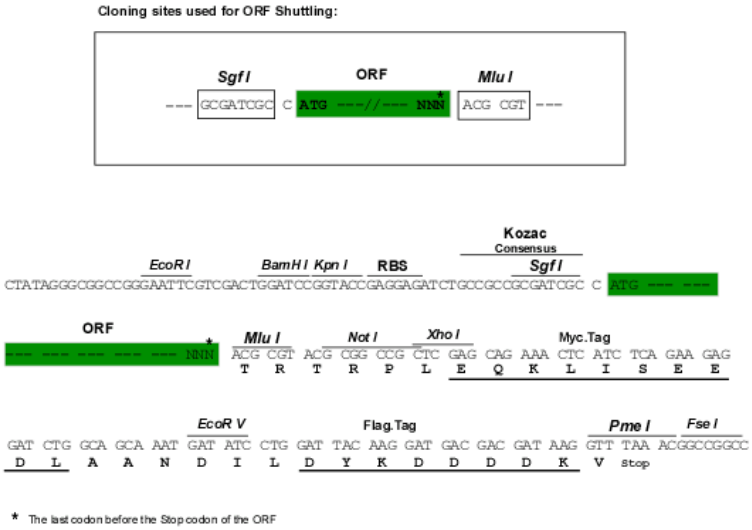
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6166_c10.zip

**Restriction Sites:** SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

**Cloning Scheme:**

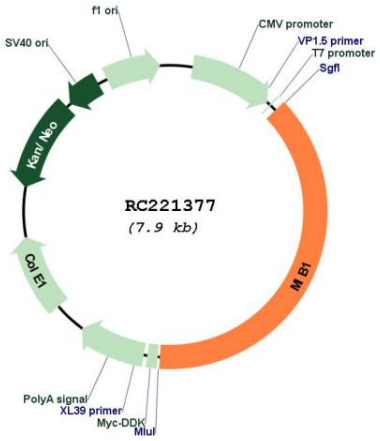



| | |
|---|---|
| **ACCN:** | NM_020774 |
| **ORF Size:** | 3018 bp |
| **OTI Disclaimer:** | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_020774.4 |
| **RefSeq Size:** | 9308 bp |

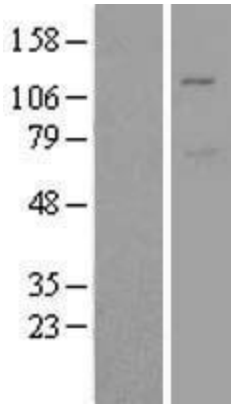
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

| | |
|---|---|
| **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:

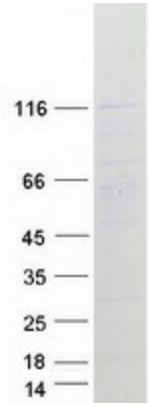



Circular map for RC221377




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

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US




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]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US