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 RC203072

Mago nashi homolog 2 (MAGOHB) (NM_018048) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mago nashi homolog 2 (MAGOHB) (NM_018048) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mago nashi homolog 2
Synonyms:	mago; magoh; MGN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC203072 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTGGCTAGCGATTTCTACCTGCGCTACTACGTAGGGCACAAGGGCAAGTTTGGGCACGAGTTTC
TGGAGTTCGAATTTCGGCCGGACGGAAAGCTTAGATATGCCAACAACAGCAATTACAAAAATGATGTGAT
GATCAGAAAAGAGGCTTATGTGCACAAGAGTGTAATGGAAGAACTGAAGAGAATTATTGATGACAGTGAA
ATTACAAAAGAAGATGATGCTTTGTGGCCTCCCCCTGATAGGGTTGGCCGACAGGAGCTTGAAATTGTAA
TTGGAGATGAGCACATATCTTTTACCACATCAAAAATAGGTTCTCTTATTGATGTAAATCAGTCAAAGGA
TCCTGAAGGCCTTCGAGTATTTTACTATTTGGTACAAGACTTGAAATGTTTAGTTTTCAGTCTTATTGGA
TTACACTTCAAGATTAAACCAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

```
>RC203072 protein sequence
Red=Cloning site Green=Tags(s)

MAVASDFYLRYYVGHKGKFGHEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSE
ITKEDDALWPPPDRVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYYLVQDLKCLVFSLIG
LHFKIKPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

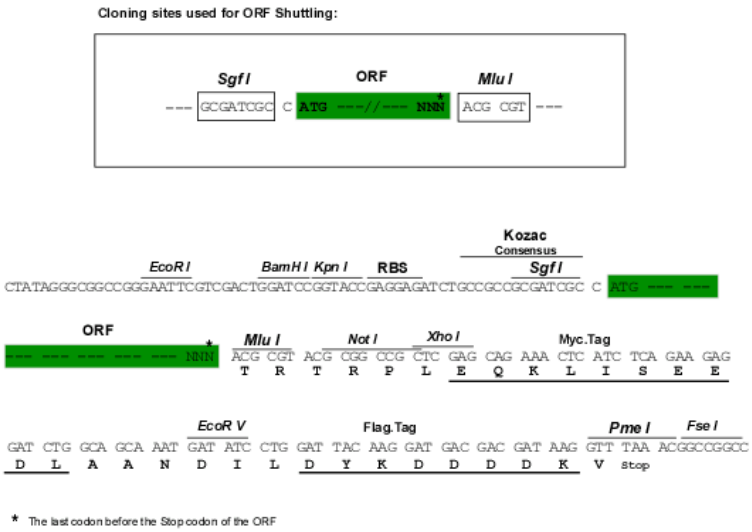
Chromatograms: https://cdn.origene.com/chromatograms/mk6434_f11.zip

View online »

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018048

ORF Size: 444 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018048.2, NP_060518.1

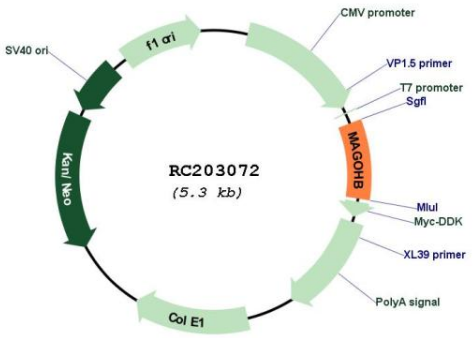
RefSeq Size: 3034 bp

RefSeq ORF: 447 bp

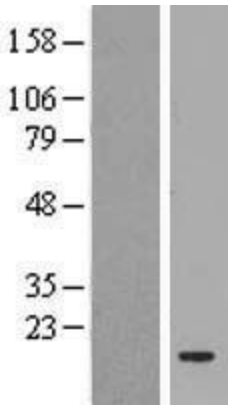
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Locus ID:	55110
UniProt ID:	Q96A72
Cytogenetics:	12p13.2
Domains:	Mago_nashi
Protein Pathways:	Spliceosome
MW:	17.3 kDa
Gene Summary:	Required for pre-mRNA splicing as component of the spliceosome (PubMed:28502770, PubMed:29301961, PubMed:30705154). Plays a redundant role with MAGOH in the exon junction complex and in the nonsense-mediated decay (NMD) pathway (PubMed:23917022). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC203072



Western blot validation of overexpression lysate (Cat# [LY413358]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203072 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