

## Product datasheet for **RG203072**

### 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:** TurboGFP  
**Symbol:** Mago nashi homolog 2  
**Synonyms:** mago; magoh; MGN2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203072 representing NM\_018048  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGTGGCTAGCGATTTCTACCTGCGCTACTACGTAGGGCACAAGGGCAAGTTTGGGCACGAGTTTC  
 TGGAGTTCGAATTCGGCCGGACGAAAGCTTAGATATGCCAACAACAGCAATTACAAAAATGATGTGAT  
 GATCAGAAAAGAGGCTTATGTGCACAAGAGTGAATGGAAGAAGTGAAGAGAATTATTGATGACAGTGAA  
 ATTACAAAAGAAGATGATGCTTTGTGGCCTCCCCCTGATAGGGTTGGCCGACAGGAGCTTAAAATTGTAA  
 TTGGAGATGAGCACATATCTTTTACCACATCAAAAATAGGTTCTCTTATTGATGTAATCAGTCAAAGGA  
 TCCTGAAGGCCTTCGAGTATTTTACTATTTGGTACAAGACTTGAATGTTTAGTTTTAGTCTTATTGGA  
 TTACACTCAAGATTAACCAATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203072 representing NM\_018048  
 Red=Cloning site Green=Tags(s)

MAVASDFYLRYYVGHKGFGEHFEFEFRPDGKLRVANNVNDVMIRKEAYVHKVMEELKRIIDDS  
 ITKEDDALWPPDRVGRQLEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFLIG  
 LHFKIKPI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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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.

RefSeq: [NM\\_018048.2](#), [NP\\_060518.1](#)

RefSeq Size: 2579 bp

RefSeq ORF: 447 bp

Locus ID: 55110

UniProt ID: [Q96A72](#)

**Cytogenetics:** 12p13.2

**Domains:** Mago\_nashi

**Protein Pathways:** Spliceosome

**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 RG203072