

Product datasheet for MR216581

Mal2 (NM_178920) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mal2 (NM_178920) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mal2
Synonyms: A1461653
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216581 representing NM_178920
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGGCGCGCGGAGCAGTCCCGCGCCCCGAACCTGCCGTGCTCTCCGGCGCCCCGGGTCAACC
 TGCCCGCTGGCCCCGACATCCTAAGGACGTACTCCGGAGCTTCGTCTGTCTGGAGATTGTGCTGGAGG
 ACTTGTCTGGATTTTGGTTGCTTCTCAATGTTCTCTACCTCTGCTCCAAGGATGGGTCACTGTTTGTG
 TCGGTGACAGCTTTCTTCTTTTCGCTTCTTCTCTGGGCTTGTCTCTCTGGTATGGTGACTCAGATTG
 ATGCCAACTGGAACCTTCTGGATTTTGTCTACCATTTTCATAGTCTTTGTCTTCTACTTCGGAGCGTTTTT
 ACTGGAAGCAGCGCCACCTCCCTGCATGACCTTCAGTGCAACACAACCATGACTGTGAAGCCACTACTC
 AACGACAACCACTATAACATCAACGTGGCGCCACAGTTTTTGCCTTCATGACAACAGCTTGTATGGTT
 GCAGTTTGGTCTGGCTTTGCGAAGATGGCGACCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216581 representing NM_178920
 Red=Cloning site Green=Tags(s)

MSAGGAVPPPPNPAVSFPAPRVTLAPGPDILRTYSGAFVLCLEIVLGGLVWILVASSNVPLPLLQGWVMFV
 SVTAFFSLLFLGLFLSGMVTQIDANWNFLDFVYHFIVFVFYGFALLAAATSLHDLQCNTTMTVKPLL
 NDNQYNINVAATVFAFMTTACYGCSLGLALRRWRP

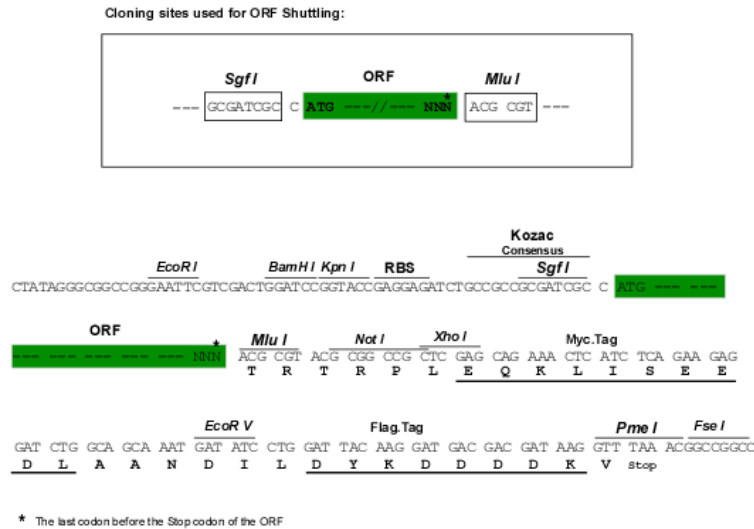
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9025_e12.zip


[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178920

ORF Size: 525 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_178920.4](#), [NP_849251.1](#)

RefSeq Size: 2775 bp

RefSeq ORF: 528 bp

Locus ID: 105853

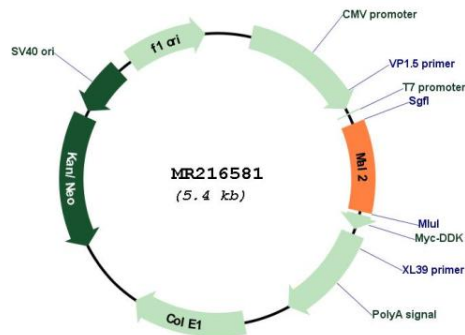
UniProt ID: [Q8BI08](#)

Cytogenetics: 15 D1

MW: 19.5 kDa

Gene Summary: Member of the machinery of polarized transport. Required for the indirect transcytotic route at the step of the egress of the transcytosing cargo from perinuclear endosomes in order for it to travel to the apical surface via a raft-dependent pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216581