

Product datasheet for **MG216581**

Mal2 (NM_178920) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Mal2
Synonyms: AI461653
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG216581 representing NM_178920
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGCCGGCGGAGCAGTCCCGCCGCCCCGAACCTGCCGTGTCTTCCCGCGCCCCGGGTACCC
TGCCCGCTGGCCCCGACATCCTAAGGACGTAATCCGGAGCTTTCGTCTGTCTGGAGATTGTCTGGAGG
ACTTGTCTGGATTTGGTTGCTTCTCCAATGTTCTCTACCTCTGCTCCAAGGATGGGTACATGTTTGTG
TCGGTGACAGCTTCTCTTTTCGCTTCTTCTTCTGGCTTGTCTCTCTGGTATGGTGACTCAGATTG
ATGCCAACTGGAACCTCCTGGATTTTGTCTACCAATTCATAGTCTTGTCTTCTACTTCGGAGCGTTTTT
ACTGGAAGCAGCGCCACCTCCCTGCATGACCTTCAGTGCAACACAACCATGACTGTGAAGCCACTACTC
AACGACAACCAAGTATAACATCAACGTGGCCGCCACAGTTTTTGCCTTCATGACAACAGCTTGTATGTT
GCAGTTTGGTCTGGCTTTCGAAGATGGCGACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216581 representing NM_178920
Red=Cloning site Green=Tags(s)

MSAGGAVPPPPNPAVSPAPRVTLTLPAGPDILRTYSGAFVLCLEIVLGGVWILVASSNVPLLLQGWMVF
SVTAFFFLSLLFLGLFLSGMVTQIDANWNFLDFVYHFIVFVYFGAFLLEAAATSLHDLQCNTTMTVKPLL
NDNQYNINVAATVFAFMTTACYGCSLGLALRRWRP

TRTRPLE - GFP Tag - V

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

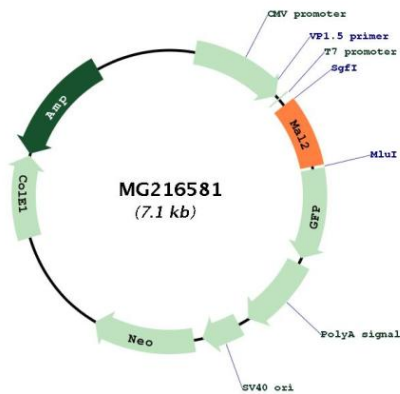
Locus ID: 105853

UniProt ID: [Q8BI08](#)

Cytogenetics: 15 D1

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 MG216581