

## Product datasheet for **RG206337**

### **MOB4A (MOB1B) (NM\_173468) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MOB4A (MOB1B) (NM_173468) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MOB4A
Synonyms:	MATS2; MOB4A; MOBKL1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206337 representing NM_173468 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCTTCTTGTGGTAGTCGCTCTTCTAAACTTTTAAACCAAGAAGAACATTCCAGAGGGTTCTC  
ACCAGTATGAGCTCTTAAACACGCAGAAGCCACACTTGGCAGTGGCAACCTTCGGATGGCTGTCATGCT  
TCCTGAAGGGGAAGATCTCAATGAATGGGTTGCAGTTAACTGTGGATTTCTTCAATCAGATCAACATG  
CTTTATGGAATACACAGACTTCTGTACAGAAGAGAGTTGTCCAGTGATGTCAGCTGGCCAAAATATG  
AGTATCATTGGGCAGATGGAACGAACATAAAGAAACCTATTAAGTCTCTGCACCAAAGTATATTGATTA  
CTTGATGACTTGGGTTCCAGGACCAGTTGGATGATGAGACGTTATTTCCATCAAAAATTGGTGTCCCGTTC  
CCAAAGAATTTTCATGCTGTGGCAAAAACCTATACTCAAACGCCTCTTTAGGGTTTATGCTCACATTTATC  
ATCAGCATTTTGACCCTGTGATCCAGCTTCAGGAGGAAGCACATCTAAATACATCTTTCAAGCACTTTAT  
TTTTTTTGTCCAGGAATCAACCTTATTGATAGAAGAGAAGTTCACCACTCCAAGAAGTATTGAAAAA  
CTCACCTCAAAGACAGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206337 representing NM\_173468  
 Red=Cloning site Green=Tags(s)

MSFLFGSRSSKTFKPKKNIPEGSHQYELLKHAEATLGSGNLRMAVMLPEGEDLNEWVAVNTVDFFNQINM  
 LYGTITDFCTEESCPVMSAGPKYEYHWADGTNIKPKIKCSAPKYIDYLMTWVQDQLDDELFPISKIGVPP  
 PKNFMSVAKTILKRLFRVYAHYHQHFDPVVIQLQEEAHLNLSFKHFIFVQEFNLIDRRELAPLQELIEK  
 LTSKDR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173468

**ORF Size:** 648 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\\_173468.4](#)

**RefSeq Size:** 6960 bp

**RefSeq ORF:** 651 bp

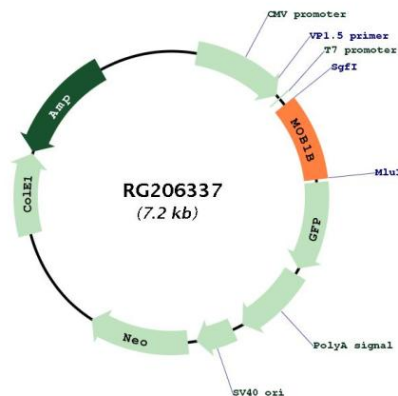
**Locus ID:** 92597

**UniProt ID:** [Q7L9L4](#)

**Cytogenetics:** 4q13.3

**Gene Summary:** The protein encoded by this gene is similar to the yeast Mob1 protein. Yeast Mob1 binds Mps1p, a protein kinase essential for spindle pole body duplication and mitotic checkpoint regulation. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

## Product images:



Circular map for RG206337