

## Product datasheet for **MG201073**

### Wtap (NM\_175394) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wtap (NM\_175394) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Wtap  
**Synonyms:** 2810408K05Rik; 9430038B09Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201073 representing NM\_175394  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGACCAACGAAGAACCTCTTCCTAAAAAGGTCCGACTGAGTGAAACAGACTTCAAAGTTATGGCACGGG  
 ATGAGTTAATTCTAAGATGGAACAATATGAAGCATATGTTCAAGCTTTGGAGGGAAAGTACACAGATCT  
 TAATTCAAACGATGTGACTGGTTAAGGGAATCTGAAGAAAACTAAAGCAGCAACAGCAGGAGTCTGCA  
 CGCAGGGAGAATTCTGTTCATGCGGCTAGCAACCAAGGAGCAGGAGATGCAAGAGTGCCTACTCAA  
 TCCAGTACCTCAAGCAAGTTCAGCAGCCGAGTGTGGCCAACTGAGATCAACAATGGTAGACCCAGCGAT  
 CACTTGTTTTTCTAAAAATGAAAGGTGAAGTGAACAGACTAAAGACAACTGGAACAAGCCAAAAT  
 GAACTGAGTGCTGGAAGTTTACGCTGATAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201073 representing NM\_175394  
 Red=Cloning site Green=Tags(s)

MTNEEPLPKKVRLSETDFKVMARDELILRWKQYEAYVQALEGKYDLNSNDVTGLRESEEKTKQQQESA  
 RRENILVMRLATKEQEMQECTTQIQYLKQVQPSVAQLRSTMVDPAINLFFLKMKGELEQTKDKLEQAQN  
 ELSAWKFTPDR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

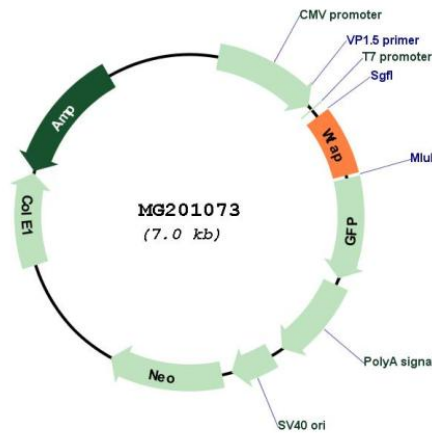


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_175394

ORF Size: 453 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_175394.1, NP_780603.1</u>
<b>RefSeq Size:</b>	3309 bp
<b>RefSeq ORF:</b>	456 bp
<b>Locus ID:</b>	60532
<b>UniProt ID:</b>	<u>Q9ER69</u>
<b>Cytogenetics:</b>	17 A1
<b>Gene Summary:</b>	Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing (PubMed:29535189, PubMed:29547716). Acts as a key regulator of m6A methylation by promoting m6A methylation of mRNAs at the 3' UTR (PubMed:29547716). Required for accumulation of METTL3 and METTL14 to nuclear speckle (By similarity). Acts as a mRNA splicing regulator (By similarity). Regulates G2/M cell-cycle transition by binding to the 3' UTR of CCNA2, which enhances its stability (By similarity). Impairs WT1 DNA-binding ability and inhibits expression of WT1 target genes (By similarity).[UniProtKB/Swiss-Prot Function]