

Product datasheet for MR201073

Wtap (NM_175394) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wtap (NM_175394) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Wtap
Synonyms: 2810408K05Rik; 9430038B09Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201073 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAACGAAGAACCTCTTCTAAAAAGGTCCGACTGAGTGAAACAGACTTCAAAGTTATGGCACGGG
 ATGAGTTAATTCTAAGATGGAACAATATGAAGCATATGTTCAAGCTTTGGAGGGAAAGTACACAGATCT
 TAATTCAAACGATGTGACTGGTTAAGGGAATCTGAAGAAAACTAAAGCAGCAACAGCAGGAGTCTGCA
 CGCAGGGAGAACATTCTGTGCATGCGGCTAGCAACCAAGGAGCAGGAGATGCAAGAGTGCCTACTCAA
 TCCAGTACCTCAAGCAAGTTCAGCAGCCGAGTGTGGCCAACTGAGATCAACAATGGTAGACCCAGCGAT
 CAACTGTTTTTCTAAAAATGAAAGGTGAAGTGAACAGACTAAAGACAACTGGAACAAGCCAAAAT
 GAACTGAGTGCTGGAAGTTTACGCCTGATAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201073 protein sequence
 Red=Cloning site Green=Tags(s)
 MTNEEPLPKKVRVLSDFKVMARDELILRWKQYEAYVQALEGKYDLNSNDVTGLRESEEKLNKQQQESA
 RRENILVMRLATKEQEMQECTTQIQYLKQVQPSVAQLRSTMVDPAINLFFLKMKGELEQTQDKLQEQQN
 ELSAWKFTPDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_175394

ORF Size: 456 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_175394.1](#), [NM_175394.2](#), [NP_780603.1](#)

RefSeq Size: 4967 bp

RefSeq ORF: 456 bp

Locus ID: 60532

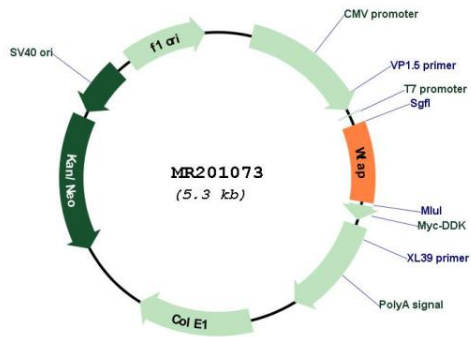
UniProt ID: [Q9ER69](#)

Cytogenetics: 17 A1

MW: 17.8 kDa

Gene Summary: 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]

Product images:



Circular map for MR201073