

Product datasheet for **MC207546**

Wtap (NM_175394) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wtap (NM_175394) Mouse Untagged Clone
Tag: Tag Free
Symbol: Wtap
Synonyms: 2810408K05Rik; 9430038B09Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207546 representing NM_175394
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACCAACGAAGAACCTCTTCCTAAAAAGGTCCGACTGAGTGAAACAGACTTCAAAGTTATGGCACGGG
ATGAGTTAATTCTAAGATGGAACAATATGAAGCATATGTTCAAGCTTTGGAGGGAAAGTACACAGATCT
TAATTCAAACGATGTGACTGGTTTAAGGGAATCTGAAGAAAACTAAAGCAGCAACAGCAGGAGTCTGCA
CGCAGGGAGAACATTCTTGTCATGCGGCTAGCAACCAAAGAGCAGGAGATGCAAGAGTGCACCCTCAA
TCCAGTACCTCAAGCAAGTTCAGCAGCCGAGTGTGGCCCAACTGAGATCAACAATGGTAGACCCAGCAAT
CAACTGTTTTTCTAAAAATGAAAGGTGAACTGGAACAGACTAAAGACAACTGGAACAAGCCAAAAAT
GAACTGAGTGCCTGGAAGTTTACGCCTGATAGG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_175394
Insert Size: 456 bp
OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<ol style="list-style-type: none">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:	<u>NM_175394.2</u> , <u>NP_780603.1</u>
RefSeq Size:	4967 bp
RefSeq ORF:	456 bp
Locus ID:	60532
UniProt ID:	<u>Q9ER69</u>
Cytogenetics:	17 A1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) includes an alternate 5' UTR exon and lacks two exons, and its transcription extends past a splice site that is used in variant 1, resulting in an immediate translation termination and a different 3' UTR, compared to variant 1. It encodes isoform b which is C-terminal truncated, compared to isoform a. Variants 2 and 3 encode the same isoform b.</p>