

## Product datasheet for **MC228430**

### Wac (NM\_001282093) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wac (NM_001282093) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wac
Synonyms:	1110067P07Rik; A230035H12Rik; AI256735; AI256776; Wwp4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228430 representing NM\_001282093  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGAGACGCCGAGATCCTTACCACCAACAAAATGTTGCGGAGATCTAATAGTCTGAAAACAAAT  
 ACAGTGACAGCACAGGTACAACAAGGCCAAAAACGTGCACACTCAGAGAGTTAGAGAAAAGGACGGTGG  
 GACCAGTTACTCTCCACAAGAAAACCTCACACAACCACAGTGCACCTTCATAGTTCAAATTCACATTCTTCT  
 AATCCAAGCAATAATCCAAGCAAAAACCTCAGATGCACCTTATGATTCTGCAGATGATTGGTCTGAGCACA  
 TTAGTCTCATCTGGAAAAAGTACTACTACAATTGTGCGACAGAAGTTTACAGTGGGAGAAAACAAAAGA  
 GTGGCTTGAAAGAGAACAGAGACAAAAGAAGCAATAAGCTGGCAGTTAATAGTTTCCAAAAGACAGG  
 GATTACAGAAGAGAGGTGATGCAAGCAACAGCCACTAGTGGGTTACCAGTGAATGGAAGACAAGCATT  
 CCAGCGATGCCAGTAGTTTGTCCACAGAATATTTGTCTCAAACAAGCAGACACAATGACAAAGACTA  
 CAGACTGCCAAGAGCAGAGACTCACAGTAGCTCTACGCCAGTACAGCACCCCATCAAACAGTGGTTCAT  
 CCAACCGTACCCCAAGCACTGTTCTTCTAGTCCATTTACGCTTCAGTCTGATCACCAGCCAAAGAAAT  
 CATTTGATGCTAATGGAGCATCTACTTTATCAAACCTGCCTACACCCACAGCTTCTCTCCCTGCACAGAA  
 AACAGAGAGAAAAGAATCTGCTCCAGGAGACAAATCAATATCACATTCTTGACAACCTCTTCCACATCT  
 TCAGCCTCTGGCCTGAACCCTACATCTGCGCCTCCGACATCTGCTTCAGCAGTACCTGTTTCTCCCGTTC  
 CACAATCAACAATACCTCCATTACTTCAGGACCCAAATCTTTTTAGACAGTTGCTTCTGCTTTGCAAGC  
 CACGCTACAGCTTAATAATTCTAATGTGGACATATCCAAAATAAATGAAGTTCTTACAGCAGCTGTAAACA  
 CAAGTTCCTGCAGTCTATCATCCACAAGTTTCTTACTGCTGGACCATCTGCTTCAACATCACCTCAC  
 TGATTTCTCAAGCTGCCAGCTTTCTACACAAGCCAGCCATCTAATCAGTCTCCAATGTCTCTGACATC  
 TGATGCTTCATCCCAAGATCCTATGTGTCTCCAAGAATAAGCACACCTCAAACATAACAGTCCCTATG  
 AACCTTTGATTAGTACTCCACCTGTTTCTATCCAGCCAAAGGTTAGTACTCCAGTAGTTAAGCAAGGAC  
 CAGTGTACATTCGGCTACACAGCAGCCTGTAACCTGCTGACAAGCAGCAGAGCCATGATCTGTTTCTCC  
 TCGAAGTCTTCAGCGCTTAAGTAGCCAGAGAAGTCCATCACCTGGTCCAATCATACTTGTAGTAGTAAT  
 GCATCAACTGCAACTGTTGTACCACAGAATGCATCTGCTAGACCTGCGTGTCTTAACACCTACTCTAG  
 CAGCGCACTTCAATGATAATCTCATAAAGCATGTTCAAGGGTGGCCTGCAGACCACGCAGAGAAACAGGC  
 ATCAAGATTGCGTGAAGAAGCCATAATATGGGAAGTGTACATATGTCAGAAATATGACTGAGTAAAA  
 AATTTGAGATCATTAGTTCGAGTATGTGAAATTAAGCAACTTTGCGAGAGCAGAGGATACTATTTTGA  
 GACAACAAATTAAGGAAGCTGAAAAGCTGAAAATCAGAATTCCTTCATGGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001282093
- Insert Size:** 1806 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001282093.1](#), [NP\\_001269022.1](#)

**RefSeq Size:** 5058 bp

**RefSeq ORF:** 1806 bp

**Locus ID:** 225131

**UniProt ID:** [Q924H7](#)

**Cytogenetics:** 18 A1

**Gene Summary:** Acts as a linker between gene transcription and histone H2B monoubiquitination at 'Lys-120' (H2BK120ub1). Interacts with the RNA polymerase II transcriptional machinery via its WW domain and with RNF20-RNF40 via its coiled coil region, thereby linking and regulating H2BK120ub1 and gene transcription. Regulates the cell-cycle checkpoint activation in response to DNA damage. Positive regulator of amino acid starvation-induced autophagy. Also acts as a negative regulator of basal autophagy. Positively regulates MTOR activity by promoting, in an energy-dependent manner, the assembly of the TTT complex composed of TELO2, TTI1 and TTI2 and the RUVBL complex composed of RUVBL1 and RUVBL2 into the TTT-RUVBL complex. This leads to the dimerization of the mTORC1 complex and its subsequent activation. May negatively regulate the ubiquitin proteasome pathway.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) uses an alternate 5' structure, and thus differs in the 5' UTR and 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (3) with a shorter N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript was derived from the reference genome assembly. The genomic coordinates were determined from alignments.