

## Product datasheet for **MC224242**

### Usp19 (NM\_001168373) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Usp19 (NM\_001168373) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Usp19  
**Synonyms:** 8430421I07Rik; AI047774; Zmynd9  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224242 representing NM\_001168373  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTGCAGGGGCCAGTGCTACAGGGCCAGGAGGGGGCCCGCCAGGACTGGAAGAGGCCACTAGTAAGA  
AGAAACAGAAGGATCGAGCAAACCTGGAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTTCCTCGAAA  
GGAACCAACAAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTCGCC  
GTGGGAACAGGTCCCGTACGTCCTGGAGGATGTAGATGCTGCGTTACAGACACGGACTGTGTGGTAGGC  
TTCCAGATGGTCCGCACTGGGGTGGTGTCTTTGCTGAAATACAAAGTTCTTGACCAAAGTGCAGGC  
TCGCAAGGGTGGTCTTCTACAGCTAGTACTACCAAGAAGGTGCCTCTGCTCACGTGGCCCTCTCTCCTG  
AAGAACTCTGGGAACCAAGAGCTGGTGCCAGGTTTGCACTGCCAGGAGAACGGGCAAGAGCTGTCTC  
CCATTGCCCTGGAGCCAGGCTCTGAGCCCCGAGAGCTAAACAGGAAGCCGAAACCAAGAGCGGGCCCA  
GGCCGTGGTGGTAGGTAGGCTCGGGGGCTGGCCCTGGGACACAGGCAGGGCCAGCCCAAGAGGGCTGTT  
CACCTCCGAGAGGGCCAGAAGGGGAAGGTCCATGGATGGCCCCGGCCCCAGGGTGTGCCCCGTCTT  
TCCTGTGACTCAGCTACCCAGTTGAGGCTGAGGAGAAGCTCTGTGCTCCACCAATGAACACTCAAAC  
AAGTCTTTGAGCTCAGAGAAGAGTTTAGCCCTTCTGACAGTAGAGAAGACAGTGTCCCCAGGAATGAC  
CCAGTCGCCCCGTTATGGTCCAGGACAGAGACCTGAGCCTGAGCAAGAAGACCAAGTCAAAGAGGAGA  
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GAACGACTCGATGAGAAGGGCCCGGATTCGGTGGTGGTGCACGTGTACGTGAAGGAGATCCGCAGGGAC  
AGCTCCGAGTGTCTTCCGAGAGCAGGACTTCACACTGATCTTCCAGACCAGGGACGGAACCTTTCTGA  
GGCTGCATCCGGGCTGTGGGCCACACCATCTCCGATGGCAGGTGAAGCTCAGAACTTGATTGAACC  
AGAGCAGTGTACGTTCTGTTTACGGCCTCTCGAATCGATATCTGCCTCCGGAAGCGGCAGAGTCAGCCG  
TGGGGGGACTGGAGGCCCTGCTACACGAGTGGTGGTCAAAGGTTGCCGTGCCGACAGGCCCAACCC  
CTTTGGATTCAACCCCTCCAGGAGGTGGCCCCACCCCTGACAGGCCAGGAGGAAGCCAGGGCTGTGGA  
GAAGGAAAAACCAAGGCTCGATCAGAGGACTCAGGGCTGGATGGTGGTGGCCCGCACCCCTTGGAG  
CATGTAGCCCCAAGCCAGACCCACACTTGGCCTCGCCAAACCCACGTGTATGGTGCCTCCAATGCCCG



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ACAGTCCAGTTAGTGGGGATAGTGTGGAGGAGGACGAAGAGGAAGAGAAGAAGGTGTCCTGCCAGGCTT
CACTGGCCTTGTCAACTTAGGGAACACCTGCTTCATGAATAGCGTCATTCAAGTCTTTGTCCAACACTCGG
GAACTTCGTGACTTCTTTCACGACCGATCCTTTGAAGCTGAGATTAACAATAACCCATTGGGGACTG
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GCCCTCCAAGCTAAAGGCCATTGTGGCAAGCAAGGCCAGCCAGTTCACAGGCTATGCACAGCATGATGCT
CAAGAGTTCATGGCTTTCTTGTGGATGGGCTACATGAAGACCTCAATCGAATCCAAAACAAACCCCTACA
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GTATTCAAACCGCCCTTCCAGCCTGGCCGATGGCTTTGGAATCGCAGAGCCCTGGCTGTACCACGTTGC
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GACCCCTGTGGCTGAAGGGGATACAGGGGCTCACCGAGTATGGCCGCTGCTGATAGGGGCTCTGTGCT
AGCACCAGTGGACTCTCTCTGAGATGCTGGCCAGTGGCCCTATCGAAGTTGTCCCTTGCTTGTGGT
AGAGGGTATCTCGGCCTGAAGCTGCTGTGCTGGTACCAACTCAAGTGAATCTGTGAATACCCACAC
GCCCCAGTCTTTCATCTATAAAATTGATGCATCAAACCTGAGCAGCGGCTGGAGGACAAAGGGGAGACA
CCATTGGAGCTAGGTGATGACTGTAGCCTGGCTCTGGTGTGGCGAACAATGAACGCTGCAGGAGTTG
TGTTGGTAGCCTCCAAGGAGCTGGAATGTGCTGAAGATCCAGGCTCTGCTGGTGGAGCTGCCCGTGTGG
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TGATTGTGCAGCTCAAGCGCTTCTCCTTTCGTAGTTTCATTTGGCGAGACAAGATCAATGACTTGGTGG
GTTTCTGTTTCGGAACCTGGACTTGAGCAAGTTCTGTATCGGTGAGAAAGAGGAGCAGCTGCCTAGCTAT
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CCAATGATCGCAGTAGCCAGCGCAGTGACGTGGGCTGGCGCTTGTGGTATGACAGCACGGTGACAACAGT
AGACGAAAGCCAGGTCGTGACGCCTATGCCTATGTTCTTCTACCGTGTGCGAACTCTCCTGTGGAG
AGACCCCCCAGGGCAAGTCACTCTGAACACCACCAGACCTAGGCCCTGCAGCTGAGGCTGCTGCCAGCC
AGGGACTAGGCCCTGGCCAGGCCCCGAGGTGGCCCCACGCGGACAGCCCTGAACGCTTGCAGCCCCC
TGTGGACCGCCAGCCCCACGTACAGCAACATGGAGGAGGTCGATTAG
    
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001168373
- Insert Size:** 3969 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).
- 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\\_001168373.2](#), [NP\\_001161845.1](#)

**RefSeq Size:** 4722 bp

**RefSeq ORF:** 3969 bp

**Locus ID:** 71472

**UniProt ID:** [Q3UJD6](#)

**Cytogenetics:** 9 F2

**Gene Summary:** Deubiquitinating enzyme that regulates the degradation of various proteins. Deubiquitinates and prevents proteasomal degradation of RNF123 which in turn stimulates CDKN1B ubiquitin-dependent degradation thereby playing a role in cell proliferation. Involved in decreased protein synthesis in atrophying skeletal muscle. Modulates transcription of major myofibrillar proteins. Also involved in turnover of endoplasmic-reticulum-associated degradation (ERAD) substrates (By similarity). Regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing their ubiquitination. Required for cells to mount an appropriate response to hypoxia and rescues HIF1A from degradation in a non-catalytic manner. Exhibits a preference towards 'Lys-63'-linked ubiquitin chains (By similarity). Plays an important role in 17 beta-estradiol (E2)-inhibited myogenesis. Decreases the levels of ubiquitinated proteins during skeletal muscle formation and acts to repress myogenesis.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) uses alternate splice sites in the coding region and has an alternate 3' exon compared to variant 1. The resulting protein (isoform 4) is shorter and has a distinct C-terminus compared to isoform 1.