

Product datasheet for **MC224240**

Usp19 (NM_001168371) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Usp19 (NM_001168371) 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: >MC224240 representing NM_001168371
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTGCAGGGGCCAGTGCTACAGGGCCAGGAGGGGGCCCGCCAGGACTGGAAGAGGCCACTAGTAAGA
 AGAAACAGAAGGATCGAGCAAACCTGAAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTTCCTCGAAA
 GGAACCAACAAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTCGCC
 GTGGGAACAGGTCCCGTACGTCTGGAGGATGTAGATGCTGCGTTACAGACACGGACTGTGTGGTAGGC
 TTCCAGATGGTCCGCAGTGGGGTGGTGTCTTTGCTGAAATACAAAGTTCTTGACCAAAGTGCAGGC
 TCGCAAGGGTGGTCTTCTACAGCTAGTACTACCAAGAAGGTGCCTCTGCTCACGTGGCCCTCTCTCCTG
 AAGAAACCTCTGGGAACCAAGAGCTGGTGCCAGGTTTGCAGTGCCAGGAGAACGGGCAAGAGCTGTCTC
 CCATTGCCCTGGAGCCAGGCTCTGAGCCCCGACAGCTAAACAGGAAGCCGAAACCAAGAGCGGGCCCA
 GGGCCGTGGTGGTAGGTAGGCTCGGGGGCTGGCCCTGGGACACAGGCAGGGCCAGCCCAAGAGGGCTGTT
 CACCTCCGACAGGGCCAGAAGGGGAAGGTCCATGGATGGCCCCGGCCCCAGGGTGTGCCCTCTT
 TCCTGTCTGACTCAGCTACCCAGTTGAGGCTGAGGAGAAGCTCTGTGCTCCACCAATGAACACTCAAAC
 AAGTCTCTTGAGCTCAGAGAAGAGTTTAGCCCTTCTGACAGTAGAGAAGACAGTGTCCCCAGGAATGAC
 CCAGTCGCCCCGTTATGGTCCAGGACAGAGACCTGAGCCTGAGCAAGAAGACCAAGTCAAAGAGGAGA
 TGGCACTTGGGGCTGATCCTACAGCCTTGGTGGAGGAACCAAGTCTATGGTGAACCTGGCATTGTCAA
 GAACGACTCGATGAGAAGGGCCCGGATTCGGTGGTGGTGCACGTGTACGTGAAGGAGATCCGCAGGGAC
 AGCTCCCGAGTGTCTTCCGAGAGCAGGACTTCACACTGATCTTCCAGACCAGGGACGGAACCTTTCTGA
 GGCTGCATCCGGGCTGTGGGCCACACCATCTCCGATGGCAGGTGAAGCTCAGAACTTGATTGAACC
 AGAGCAGTGTACGTTCTGTTTACGGCCTCTCGAATCGATATCTGCCCTCCGGAAGCGGCAGAGTCAGCCG
 TGGGGGGACTGGAGGCCCTGCTACACAGGTCAGTGGTGGTCAAAGGTTGCCGTGCCGACAGGCC
 CAACCCCTTTGGATTCAACCCCTCCAGGAGGTGGCCCCACCCCTGACAGGCCAGGAGGAAGCCAGGGC
 TGTGGAGAAGGAAAAACCAAGGCTCGATCAGAGGACTCAGGGCTGGATGGTGTGGTGGCCCCACCCCC
 TTGGAGCATGTAGCCCCAAAGCCAGACCACACTTGGCCTCGCCCAAACCCACGTGTATGGTGCCTCAA



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TGCCGCACAGTCCAGTTAGTGGGGATAGTGTGGAGGAGGACGAAGAGGAAGAAGAAGGTGTGCCTGCC
 AGGCTTCACTGGCCTTGTCAACTTAGGGAACACCTGCTTCATGAATAGCGTCATTCAGTCTTTGTCCAAC
 ACTCGGAACTTCGTGACTTCTTTCACGACCGATCCTTTGAAGCTGAGATTAACAATAACCCATTGG
 GGACTGGTGGGCGCCTCGCCATTGGCTTTGCTGTGCTGCTCCGGGCCCTATGGAAGGGTACTCACCAAGC
 CTTTCAGCCCTCAAGCTAAAGGCCATTGTGGCAAGCAAGGCCAGCCAGTTCACAGGCTATGCACAGCAT
 GATGCTCAAGAGTTCATGGCTTCTTGTGGATGGCTACATGAAGACCTCAATCGAATCCAAAACAAC
 CCTACACAGAGACTGTGGACTCGGACGGGCGCCGATGAGGTGGTAGCCGAGGAAGCATGGCAGCGGCA
 CAAGATGAGAAATGATTCATTGTTGACCTGTTTCAGGGCCAGTACAAGTCAAAGCTGGTGTGCCCT
 GTGTGTGCCAAGGTCTCCATCACTTTTGACCCGTTCTTTATCTGCCGGTACCCTTGCCACAAAAGCAAA
 AGGTTCTCCCATATTTATTTTGGCAGGGAGCCACAGCAAGCCCATCAAGTCTGTGAGTGTGAG
 CAAGGAGAACTCCAGCGGAGTGAAGTGTGGACTCCCTCTCAGAGTGTCCACGTGAAGCCTGAGAAC
 CTGCGCCTAGCCGAGTAATTAAGAACCCTTCCACCGTGTCTTCTGCCCTCCCACTACTGGACGCTG
 TGTCACCCACGGACGTGCTCCTGCTTTGAGTGTCTCCCCAGAAGTGGCTAAGGAGCGGGTAGTAGT
 GCTGGAGTGCAGCAGCGCCCCAGTACCAGCATCCCTATCTCAAGTGGCAGCCTGCCAGCGGAAG
 CAGCAATCAGAAGAAGAAAAGCTGAAGCGCTGTACCCGTTGCTACCGTGGGCTACTGCAACCAGTTCT
 GCCAGAAAACCCATTGGCCTGACCACAAAAGGCCTCTGCCGCCCTGAGAACATTGGCTACCCTTCTGGT
 CAGTGTGCCTGCTTACGCCTCACTTATGCCCGTCTTGCTCAGCTACTAGAAGGTTATGCCCGTACTCT
 GTGAGTGTATTCCAACCGCCCTTCCAGCCTGGCCGATGGCTTTGGAATCGCAGAGCCCTGGCTGTACCA
 CGTTGCTTTCAACCAGCTCTCTGGAGGCTGGGGACAGTGAAGAGAAACCCATTACGCCTTCTGAGCTCCA
 GCTGGTGAACCCCTGTGGCTGAAGGGGATACAGGGGCTCACCGAGTATGGCCGCTGCTGATAGGGGTCT
 GTGCCTAGCACCAGTGGACTCTTCTGAGATGCTGGCCAGTGGCCCTATCGAAGGTTGTCCCTTGTG
 CTGGTGAAGGGTATCTCGCCGAAGCTGTGCTGCTGGTACCAACTCAAGTGAATCTGTGAATAC
 CCACACGCCCAAGTCTCATCTATAAAATTGATGCATCAAACCGTGGCAGCGGCTGGAGGACAAAGGG
 GAGACACCATTGGAGTGGTGTGACTGTAGCCTGGCTCTGGTGTGGCGAACAATGAACGCTGCAGG
 AGTTTGTGTTGGTGCCTCCAAGGAGCTGGAATGTGCTGAAGATCCAGGCTCTGCTGGTGGGCTGCCCG
 TGCTGGCCACTTACCCTGGACCAGTGCCTCAACCTCTTACACGGCCTGAAGTGTGGCACCTGAGGAG
 GCCTGGTACTGCCACAGTGCAAACAGCATCGTGAGGCCCTCAAACAGCTGCTGTTGTGGCGCCTACCGA
 ACGTGTGATTGTGCAGCTCAAGCGTCTCTCTTCTGAGTTCATTTGGCGAGACAAGTCAATGACTT
 GGTGGAGTTTCTGTTCCGAACCTGGACTTGGCAAGTCTGTATCGGTCAGAAAGAGGAGCAGCTGCCT
 AGCTATGACCTGTATGCTGTCATCAACCACTACGGAGGCATGATCGGTGGCCACTATACTGCTTGTGCAC
 GGCTGCCCAATGATCGCAGTAGCCAGCGCAGTGCAGTGGGCTGGCGCTTGTGATGACAGCAGCGTGC
 AACAGTAGACGAAAGCCAGGTCGTGACGCGCTATGCCTATGTTCTCTTCTACCGTGTGGAACTCTCT
 GTGGAGAGACCCCCAGGGCAAGTCACTCTGAACACCACCAGACCTAGGCCCTGCAGCTGAGGCTGCTG
 CCAGCCAGGGACTAGGCCCTGGCCAGGCCCGGAGGTGGCCCCACGCGGACAGCCCTGAACGCTTCG
 CCCCCCTGTGGACCGCCAGCCCCACGTACAGCAACATGGAGGAGGTCGATTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001168371
- Insert Size:** 3975 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_001168371.2](#), [NP_001161843.1](#)

RefSeq Size: 4728 bp

RefSeq ORF: 3975 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 (2) uses an alternate splice site in the 5' coding region and has an alternate 3' exon compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus compared to isoform 1.