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Product datasheet for RN205835

Usp19 (NM_001001516) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Usp19 (NM_001001516) Rat Untagged Clone

Tag: Tag Free

Symbol: Usp19

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

Fully Sequenced ORF:

>RN205835 representing NM_001001516
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGCTGGCACCAGTGCTACAGGCCCAAGGAGGGGGCCTCCGGGATTGGAGGAGGCAACTAGTAAGA
AGAAACAGAAGGATCGAGCAAACCAGGAAAGTAAGGATGGAGATCCTAGGAGAGTGTCCATGCCTCGAAA
GGAGCCCACCAAAGATGAACTGTTGCTCGATTGGAGACAGAGTTCAGATAAGGTGGTTGTTAAGCTGCGC
GTGGGAACAGGTCCCATATGTCTGGAGGAAGTAGATGCTGCTTTCACAGACACGGACTGTGTGGTGAGGC
TTCCAGATGGTCGGCAGTGGGGTGGTGTCTTCTTTGCTAAAATACAAAGTTCTTGTACCAAAGTGCAGAC
TCGCAAGGGTGGTCTTCTACAGTTGGCACTACCAAAGAAGGTGCCTCTTCTCACGTGGCCCTCTCTCCTG
AAGAAACCTCTAGGGACCCAAGAACTGGTGCCAGGATTGCGGTGCCAGGAGAACGGACAAGAACTGTCTC
CCATTGCCCTGGAGCCAGGTTCTGAGCCCCGCAGAGCTAAACAGGAAGCTCGAAACCAGAAGAGGGCCCA
GGGCCGTGGTGAGGTAGGCTCAGGGGCTAGCCCTGGGGCACAGGCAGGGCCCAGTGCCAAGAGGGCTGTT
CATCTCTGCAGAGGGCCAGAAGGTGAAGGGTCCATGGATGGGCCTGGCCCCCAGGGTGATGCCCCATCCT
TCCTGTCCGACTCAGCTACGCAGGTTGAGGCTGAGGAGCAGCTCCATGTTCCACCAGTGAACCCTCAAAC
AAGTCTCTTGGGCTCAGAGAAGAATTTAGCCCTTTTGACAGTAGAGAAGACAGTGTCCCCCAGGAGTGAC
TCAGTCTCCCCAGTCATGATCCGGAACAGAGACCCTGAGAAAGATGACCATTTCAAAGAGGAGATGGCAG
TTGGAGCTGATCCTGCAGCCTTAGCGGATGAACCAGAGTCTATGGTGAACCTGGCATTTGTCAAGAATGA
TTCGTATGAGAAGGGGCCGGATTCAGTGGTGGTGCACGTGTATGTGAAGGAGAGCCGCAGGGATACCTCT
CGAGTACTTTTCCGAGAGCAGGACTTCACGCTGATCTTCCAGACCAGGGATGGAAATTTTCTGAGGCTGC
ATCCGGGCTGTGGGCCCCACACCATCTTCCGCTGGCAGGTGAAGCTCAGGAACTTGATTGAGCCAGAGCA
ATGTACGTTTTGTTTCACGGCCTCTCGAATCGATATCTGCCTCCGGAAGCGGCAGAGTCAGCGCTGGGGG
GGACTGGAGGCCCCTGCTACACGAGTGGGTGGTGCAAAGGTTGCCGTGCCGACAGGTCCAACCCCTTTGG
ATTCAACCCCTCCAGGAGGTGGCCCCCTCCCTCTGACTGGCCAGGAGGAAGCCAGGGCTGTAGAGAAGGA
AAAACCCAAGGCTCGGTCAGAGGACTCGGGGCTGGATGGTGTGGTGGCTCGCACCCCCTTGGAGCATGTT
ACCCCAAAGCCAGAACCGCACTTGGCCTCGCCCAAACCCACATGTATGGTGCCTCCAATGCCTCATAGTC
CAGTGAGTGGAGATAGTGTGGAGGAGGATGAAGAGGAAGAGAAGAAGGTTTGTCTCCCAGGCTTTACTGG
CCTCGTCAACTTAGGGAACACCTGCTTCATGAATAGTGTCATTCAGTCTCTGTCCAACACTCGGGAGCTT

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CGTGACTTCTTCCACGACCGATCCTTTGAGGCTGAGATTAACTACAATAACCCATTGGGGACTGGTGGGC
GTCTGGCTATTGGCTTCGCTGTGCTGCTCCGGGCCCTGTGGAAGGGCACTCACCAAGCCTTTCAACCCTC
CAAGCTAAAGGCCATTGTAGCAAGCAAGGCCAGCCAGTTTACAGGCTACGCACAGCATGATGCCCAAGAG
TTCATGGCTTTCTTGTTGGATGGGCTGCATGAAGACCTGAATCGGATCCAAAACAAACCCTACACAGAGA
CTGTGGACTCAGATGGGCGACCTGACGAGGTGGTGGCTGAAGAAGCATGGCAGCGGCACAAGATGAGGAA
CGACTCATTCATTGTGGACCTGTTTCAGGGCCAGTACAAGTCAAAGCTGGTGTGCCCTGTGTGTGCCAAG
GTCTCCATCACTTTTGACCCGTTCCTTTATCTGCCGGTACCCTTGCCACAAAAGCAAAAGGTTCTCCCCA
TATATTATTTTGCCAGAGAGCCCCATAGCAAACCCATCAAGTTCCTGGTGAGCGTCAGCAAGGAGAACTC
CAGCGCAAGCGAAGTTTTGGAGTCCCTCTCTCAGAGTGTCCACGTGAAGCCTGAGAGCCTGCGCCTGGCT
GAGGTAATTAAGAATCGTTTCCACCGTGTTTTTTTGCCCTCCCACTCACTGGATGCTGTGTCGCCAACGG
ACGTGCTCCTGTGCTTTGAGCTGCTATCCCCAGAATTGGCTAAGGAGAGGGTAGTGGTGCTAGAGGTGCA
GCAGCGCCCCCAGGTACCCAGCATCCCTATCTCCAAGTGTGCAGCCTGCCAGCGGAAGCAGCAATCAGAA
GATGAAAAACTGAAGCGTTGTACCCGTTGCTACCGTGTGGGCTACTGCAACCAGTTCTGTCAGAAAACCC
ATTGGCCTGACCACAAAGGCCTCTGCCGCCCCGAGAACATTGGCTACCCCTTCCTGGTCAGTGTACCTGC
TTCACGCCTCACTTATGCCCGTCTTGCTCAGCTACTAGAAGGTTATGCCCGGTACTCTGTGAGCGTATTC
CAACCACCCTTCCAGCCTGGCCGAATGGCTTTGGAATCACAGAGCCCTGGCTGTACCACGTTGCTTTCAA
CCAGCTCTCTGGAGGCTGGGGATAGTGAAAGAGAACCCATTCAGCCTTCTGAGCTCCAGTTGGTGACTCC
TGTGGCTGAGGGGGATACCGGGGCTCACCGCATGTGGCCACCTGCTGATCGGGGTCCTGTGCCTAGCACC
AGTGGAATTTCTTCCGAGATGCTGGCCAGTGGGCCTATGGAAGGGTGTTCCTTGCTTGCTGGTGAGAGGG
TGTCTCGGCCTGAAGCTGCTGTGCCTGGGTACCAGCACTCACGTGAGTCTGTGAGCGCCCACACGCCCCA
GTTCTTCATCTATAAAATTGATGCGTCAAGCCGTGAGCAGCGGCTGGAGGACAAAGGGGACACTCCACTG
GAGCTAGGTGATGACTGTAGCCTGGCTCTGGTGTGGCGGAACAACGAACGCCTTCAGGAGTTTGTGCTGG
TGGCCTCCAAGGAGCTGGAGTGTGCTGAAGACCCAGGCTCCGCTGGTGAGGCTGCCCGTGCTGGCCACTT
CACCCTGGACCAGTGCCTCAATCTCTTTACACGGCCTGAAGTGCTGGCACCTGAGGAAGCCTGGTACTGC
CCACAGTGCAAACAGCATCGAGAGGCCTCCAAGCAGCTGCTGCTGTGGCGCCTACCAAATGTGCTCATCG
TGCAGCTCAAGCGTTTCTCCTTTCGTAGCTTCATTTGGCGTGACAAGATCAATGACTTGGTGGAGTTTCC
AGTTCGGAACCTGGACTTGAGCAAGTTCTGTATTGGTCAGAAAGAGGAGCAGCTGCCTAGCTATGACCTG
TATGCAGTCATCAACCACTACGGAGGCATGATCGGCGGCCACTACACTGCCTGTGCACGGCTGCCCAGTG
ACCGTAGTAGCCAGCGCAGTGACGTGGGCTGGCGCTTGTTTGATGACAGCACGGTGACAACAGTAGACGA
GAGCCAGGTGGTGACACGCTATGCCTATGTGCTCTTCTACCGTCGGCGGAACTCTCCTGTGGAGAGGCCC
CCCAGGGCAGCTCACGCTGAACACCACCCAGACCTAGGCCCTGCAGCCGAGGCTGCTGCCAGCCAGGCTT
CCCGGATTTGGCAGGAGCTCGAGGCCGAGGAGGAGATGGTGCCCGAGGGGCCTGGGCCTCTGGGTCCTTG
GGGGCCCCAAGACTGGGTGGGGCCCCCGCCACGTGGCCCTACCACATCAGACGAGGGCTGCCTCCGATAC
TTTGTCCTGGGTACCGTGGCGGCTTTGGTGGCCCTTGTGCTCAACGTATTCTATCCTCTGGTATCTCAGA
GTCGCTGGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001001516

Insert Size: 4074 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_001001516.2, NP_001001516.1

RefSeq Size: 4292 bp

RefSeq ORF: 4074 bp

Locus ID: 361190

UniProt ID: Q6J1Y9

Cytogenetics: 8q32

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. Regulates the stability of BIRC2/c-IAP1 and BIRC3/c-IAP2 by preventing thier ubiquitination. Required for cells to mount an appropriate response to hypoxia and rescues HIF1A from degradation in a non-catalytic manner. 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. Exhibits a preference towards 'Lys-63'-linked ubiquitin chains (By similarity).[UniProtKB/Swiss-Prot Function]