

Product datasheet for MR226427

Usp19 (NM_001168372) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp19 (NM_001168372) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp19
Synonyms:	8430421I07Rik; AI047774; Zmynd9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR226427 representing NM_001168372 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

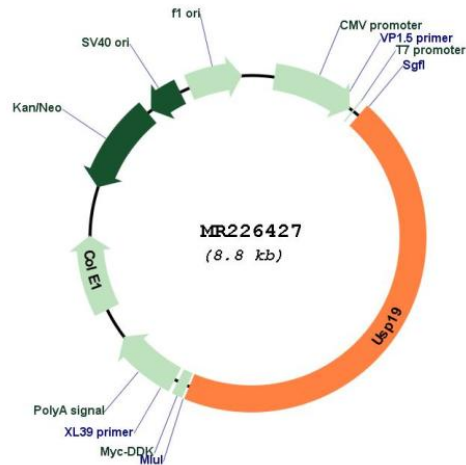
ATGTCTGCAGGGCCAGTGTCTACAGGGCCAGGAGGGGGCCCGCCAGGACTGGAAGAGGCCACTAGTAAGA
AGAAACAGAAGGATCGAGCAAACCTGAAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTTCTCGAAA
GGAACCAACAAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTCGC
GTGGGAACAGGTCCCGTACGCTCTGGAGGATGTAGATGCTGCGTTACAGACACGGACTGTGTGGTAGGC
TTCCAGATGGTCCGCAGTGGGGTGGTGTCTTTTGTGAAATACAAAGTCTTTCACCAAAAGTGCAGGC
TCGCAAGGGTGGTCTTCTACAGCTAGTACTACCAAGAAGGTGCCTCTGCTCACGTGGCCCTCTCTCCTG
AAACCTCTGGGAACCAAGAGCTGGTGCCAGGTTTGCAGTGCCAGGAGAACGGGCAAGAGCTGTCTCCCA
TTGCCCTGGAGCCAGGCTCTGAGCCCCGAGAGCTAAACAGGAAGCCGAAACAGAAAGCGGGCCAGGG
CCGTGGTGAAGTAGGCTCGGGGCTGGCCCTGGACACAGGCAGGGCCAGCCCAAGAGGGCTGTTTAC
CTCCGAGAGGGCCAGAAGGGGAAGGGTCCATGGATGGCCCGCCCGCCAGGGTGTGCCCGTCTTTCC
TGCTGACTCAGTACCCAGGTTGAGGCTGAGGAGAAGCTCTGTGCTCCCAATGAACACTCAAACAAG
TCTCTGAGCTCAGAGAAGAGTTTAGCCCTTCTGACAGTAGAGAAGACAGTGTCCCCAGGAATGACCCA
GTCGCCCCGTTATGGTCCAGGACAGAGACCCTGAGCCTGAGCAAGAAGACCAAGTCAAAGAGGAGATGG
CACTTGGGGTGTATCCTACAGCCTTGGTGGAGGAACCAGAGTCTATGGTGAACCTGGCATTGTCAAGAA
CGACTCGTATGAGAAGGGCCCGGATTCCGGTGGTGGTGCACGTGTACGTGAAGGAGATCCGACGGGACAGC
TCCCGAGTGTCTTCCGAGAGCAGGACTTCACTGATCTTCCAGACCAGGGACGAAACTTTCTGAGGC
TGCATCCGGGCTGTGGGCCCCACACCATCTTCCGATGGCAGGTGAAGCTCAGAACTTGATTGAACCAGA
GCAGTGTACGTTCTGTTTACGGCCTCTCGAATCGATATCTGCCTCCGGAAGCGGCAGAGTCAGCGCTGG
GGGGACTGGAGGCCCTGCTACACGAGGTGCAGTGGGTGGTGAAGGTTGCCGTGCCACAGGCCCAA
CCCTTTGGATTCAACCCCTCCAGGAGGTGGCCCCACCCCTGACAGGCCAGGAGGAAGCCAGGGCTGT
GGAGAAGGAAAAACCAAGGCTCGATCAGAGGACTCAGGGCTGGATGGTGTGGTGGCCCGCACCCCTTG
GAGCATGTAGCCCCAAAGCCAGACCCACACTTGGCCTCGCCAAACCCACGTGTATGGTGCCTCCAATGC



[View online »](#)

CGCACAGTCCAGTTAGTGGGGATAGTGTGGAGGAGGACGAAGAGGAAGAGAAGAAGGTGTGCCTGCCAGG
CTTCACTGGCCTTGTCAACTTAGGGAACACCTGCTTCATGAATAGCGTCATTCACTCTTTGTCCAACACT
CGGGAACCTTCGTGACTTCTTTCACGACCGATCCTTTGAAGCTGAGATTAACAATAACCCATTGGGGA
CTGGTGGGCGCCTCGCCATTGGCTTTGCTGTGCTGCCGGCCCTATGGAAGGGTACTACCAAGCCTT
TCAGCCCTCCAAGCTAAAGGCCATTGTGGCAAGCAAGGCCAGCCAGTTTACAGGCTATGCACAGCATGAT
GCTCAAGAGTTTCAATGGCTTTCTTGTGGATGGCTACATGAAGACCTCAATCGAATCCAAAAACAAACCT
ACACAGAGACTGTGACTCGGACGGGCGGCCGATGAGGTGGTAGCCGAGGAAGCATGGCAGCGGCACAA
GATGAGAAATGATTCATTATTGTGGACCTGTTTCAGGGCCAGTACAAGTCAAAGCTGGTGTGCCCTGTG
TGTGCCAAGTCTCCATCACTTTTGACCCGTTCTTTATCTGCCGGTACCCTTGCCACAAAAAGCAAAGG
TTCTCCCATATTTTATTTTGGCAGGGAGCCCCACAGCAAGCCCATCAAGTTCCTGGTGAAGTGTGAGCAA
GGAGAACTCCAGCGGAGTGAAGTGTGGACTCCCTCTCTCAGAGTGTCCACGTGAAGCCTGAGAACCTG
CGCCTAGCCGAGTAATTAAGAACCCTTCCACCGTGTCTTCTGCCCTCCCACTCACTGGACGCTGTGT
CCCCACGGACGTGCTCCTCTGCTTTGAGCTGCTCTCCCAAGTGGCTAAGGAGCGGGTAGTAGTGT
GGAGGTGCAGCAGCGCCCCAGTACCCAGCATCCCTATCTCAAGTGGCAGCCTGCCAGCGGAAGCAG
CAATCAGAAGAAGAAAAGCTGAAGCGCTGTACCGTGTGCTACCGTGTGGGCTACTGCAACCAGTTCTGCC
AGAAAACCCATTGGCCTGACCACAAAGGCTCTGCCGCCCTGAGAACATTGGCTACCCCTTCTGTGTCAG
TGTGCCTGCTTACGCGCTCACTTATGCCCGTCTTGTCTCAGCTACTAGAAGTTATGCCCGGTAAGTGTG
AGTGTATTCACACCGCCCTTCCAGCCTGGCCGATGGCTTTGGAATCGCAGAGCCCTGGCTGTACCACGT
TGCTTTCAACCAGCTCTCTGGAGGCTGGGGACAGTGAAGAGAACCCATTAGCCTTCTGAGCTCCAGCT
GGTACCCCTGTGGCTGAAGGGGATACAGGGGCTCACCGAGTATGGCCGCTGCTGATAGGGGCTCTGTG
CCTAGCACCAGTGGACTCTTCTGAGATGCTGGCCAGTGGGCCATCGAAGGTTGTCCCTTGTGCTGTG
GTGAGAGGGTATCTCGGCTGAAGCTGCTGTGCCCTGGTACCAACTCAAGTGAATCTGTAATACCCA
CACGCCCCAGTTCTTATCTATAAAAATTGATGCATCAAACCGTGAGCAGCGGCTGGAGGACAAAGGGGAG
ACACCATTGGAGCTAGGTGATGACTGTAGCCTGGCTCTGGTGTGGCGGAACAATGAACGCTGCAGGAGT
TTGTGTTGGTAGCCTCCAAGGAGCTGGAATGTGCTGAAGATCCAGGCTCTGCTGGTGAAGGCTGCCGTGC
TGGCCACTTACCCTGGACCAAGTGCCTCAACCTCTTACACGGCCTGAAGTGTGGCACCTGAGGAGGCC
TGGTACTGCCACAGTGCAAACAGCATCGTGAAGCCTCAAACAGCTGCTGTTGTGGCGCCTACCGAACG
TGCTGATTGTGCAGCTCAAGCGCTTCTCCTTTCGTAGTTTCAATTTGGCGAGACAAGATCAATGACTTGGT
GGAGTTTCTGTTGCGAACCTGGACTTGAGCAAGTTCTGTATCGGTGAGAAAGAGGAGCAGCTGCCTAGC
TATGACCTGTATGCTGTCATCAACCACTACGGAGGCATGATCGGTGGCCACTATACTGCTGTGCACGGC
TGCCCAATGATCGCAGTAGCCAGCGCAGTACGTTGGGCTGGCGCTTGTGTTGATGACAGCAGGTTGACAA
AGTAGACGAAAGCCAGGTCGTGACGCGCTATGCCTATGTTCTTCTACCGTCGTGCGAACCTCCTCTGTG
GAGAGACCCCCAGGGCAAGTCACTCTGAACACCAACCCAGACCTAGGCCCTGCAGCTGAGGCTGCTGCCA
GCCAGGGACTAGGCCCTGGCCAGGCCCCCGAGGTGGCCCCACGCGGACAGCCCTGAACGCTTCGCCCC
CCCTGTGGACCGCCAGCCCCACGTACAGCAACATGGAGGAGGTCGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001168372

ORF Size: 3969 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001168372.2](#), [NP_001161844.1](#)

RefSeq Size: 4725 bp

RefSeq ORF: 3972 bp

Locus ID: 71472

UniProt ID: [Q3UJD6](#)

Cytogenetics: 9 F2

MW: 146.7 kDa

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]