

Product datasheet for MR226428

Usp19 (NM_001168373) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp19 (NM_001168373) 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:	>MR226428 representing NM_001168373 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCAGGGCCAGTGTCTACAGGGCCAGGAGGGGGCCAGGACTGGAAGAGGCCACTAGTAAGA
AGAAACAGAAGGATCGAGCAAACCTGAAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTCCTCGAAA
GGAACCAACAAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTCGC
GTGGGAACAGGTCCCGTACGTCTGGAGGATGTAGATGCTGCGTTACAGACACGGACTGTGTGGTAGGC
TTCCAGATGGTCCGCAGTGGGGTGGTGTCTTTGCTGAAATACAAAGTTCTTGACCAAAGTGCAGGC
TCGCAAGGGTGGTCTTCTACAGCTAGTACTACCAAGAAGGTGCCTCTGCTCACGTGGCCCTCTCTCCTG
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CCATTGCCCTGGAGCCAGGCTCTGAGCCCCGACAGCTAACAGGAAGCCGAAACCAAGAGCGGGCCCA
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CACCTCCGACAGGGCCAGAAGGGGAAGGTCCATGGATGGCCCCGGCCCCAGGGTGTGCCCTGCTT
TCCTGTGACTCAGCTACCCAGTTGAGGCTGAGGAGAAGCTGTGCTCCACCAATGAACACTCAAAC
AAGTCTCTTGAGCTCAGAGAAGAGTTTAGCCCTTCTGACAGTAGAGAAGACAGTGTCCCCAGGAATGAC
CCAGTCGCCCCGTTATGGTCCAGGACAGAGACCTGAGCCTGAGCAAGAAGACCAAGTCAAAGAGGAGA
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ACAGTCCAGTTAGTGGGGATAGTGTGGAGGAGGACGAAGAGGAAGAGAAGAAGGTGTCCTGCCAGGCTT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR226428 representing NM_001168373
 Red=Cloning site Green=Tags(s)

MSAGASATGPRRGPPGLEEATSKKKQKDRANLESKDGDARRVSLPRKEPTKDELLEDWRQSADEVIVKLR
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 SEEEKLRCTRCYRVGYCNQFCQKTHWPDHKGLCRPENIGYPFLVSPASRLTYARLAQLLEGYARYSVS
 VFQPPFQPRMALESQSPGCTTLLSTSSLEAGDSEREPIQPSELQLVTPVAEGDTGAHRVWPPADRGPV
 STSGLSSEMLASGPIEGCPLLAGERVSRPEAAVPGYQHSSESVNTHTPQFFIYKIDASNREQRLEDKGET
 PLELGDDCSLALVWRNNERLQEFVLVASKELECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEAW
 YCPQCKQHREASKQLLLWRLPNVLIQVKRF SFRSFIWRDKINDLVEFPVRNLDL SKFCIGQKEEQPSY
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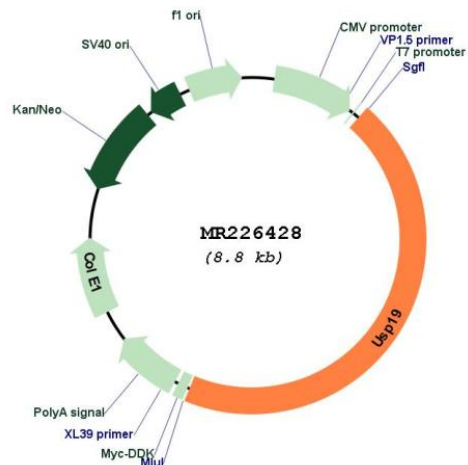
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001168373

ORF Size: 3966 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_001168373.2](#), [NP_001161845.1](#)

RefSeq Size: 4722 bp

RefSeq ORF: 3969 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]