

Product datasheet for MR226430

Usp19 (NM_145407) Mouse Tagged ORF Clone

Product data:

| | |
|--------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Usp19 (NM_145407) 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: | >MR226430 representing NM_145407 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCAGGGCCAGTGTCTACAGGGCCAGGAGGGGGCCCGCCAGGACTGGAAGAGGCCACTAGTAAGA
AGAAACAGAAGGATCGAGCAAACCTGAAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTTCTCGAAA
GGAACCAACAAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTCGC
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TTCCAGATGGTCCGCAGTGGGGTGGTGTCTTTGCTGAAATACAAAGTCTTGCACCAAAGTGCAGGC
TCGCAAGGGTGGTCTTCTACAGCTAGTACTACCAAGAAGGTGCCTCTGCTCACGTGGCCCTCTCTCCTG
AAACCTCTGGGAACCAAGAGCTGGTGCCAGGTTTGCAGTGCCAGGAGAACGGGCAAGAGCTGTCTCCCA
TTGCCCTGGAGCCAGGCTCTGAGCCCCGAGAGCTAAACAGGAAGCCGAAACCAGAAGCGGGCCAGGG
CCGTGGTAGGTAGGCTCGGGGGCTGGCCCTGGGACACAGGCAGGGCCAGGCCAAGAGGGCTGTTTCC
CTCCGAGAGGGCCAGAAGGGGAAGGGTCCATGGATGGCCCGGCCCCAGGGTGTGACCCGCTTTCC
TGCTGACTCAGTACCCAGTTGAGGCTGAGGAGAAGTCTGTGCTCCACCAATGAACACTCAAACAAG
TCTCTTGAGCTCAGAGAAGAGTTTAGCCCTTCTGACAGTAGAGAAGACAGTGTCCCCAGGAATGACCCA
GTCGCCCCGTTATGGTCCAGGACAGAGACCCTGAGCCTGAGCAAGAAGACCAAGTCAAAGAGGAGATGG
CACTTGGGGTGTATCCTACAGCCTTGGTGGAGGAACCAGAGTCTATGGTGAACCTGGCATTGTCAAGAA
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AGTGTACGTTCTGTTTACGGCCTCTCGAATCGATATCTGCCTCCGGAAGCGGCAGAGTACGCGTGGG
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CACAGTCCAGTTAGTGGGATAGTGTGGAGGAGGACGAAGAGGAAGAAGAAGGTGTGCCTGCCAGGCT



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TCACTGGCCTTGTCAACTTAGGGAACACCTGCTTCATGAATAGCGTCATTCAAGTCTTTGTCCAACACTCG
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CTGTGGACCGCCAGCCCCACGTACAGCAACATGGAGGAGTTCGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226430 representing NM_145407
 Red=Cloning site Green=Tags(s)

MSAGASATGPRRGPPGLEEATSKKKQKDRANLESKDGDARRVSLPRKEPTKDELLEDWRQSADEVIVKLR
 VGTGPVRLLEDVDAFTDTCVRLPDGRQWGGVFFAEIQSSCTKVQARKGGLLQLVLPKKVPLLTPWSSL
 KPLGTQELVPLQCQENGQELSPIALEPGSEPRRAKQEARNQKRAQGRGEVSGAGPGTQAGPSAKRAVH
 LRRGPEGEGSMDGPGQGDAPSFLSDSATQVEAEKLCAPPMTQTSLLSSEKSLALLTVEKTVSPRNDP
 VAPVMVQDRDPEPEQEDQVKEEMALGADPTALVEEPESMVNLAFVKNDSEYKGPDSVVVHVYVKEIRRDS
 SRVLFREQDFTLIFQTRNLEIPEQCTFCFTASRIDICLRKRQSQRWGGLLEAPATRGAVGGAKVAVPTGPT
 PLDSTPPGGGPHPLTGQEEARAVEKEKPKARSEDGLDGVVARTPLEHVAPKPDPHLASPKPTCMVPPMP
 HSPVSGDSVEDEEEKVKVCLPGFTGLVNLGNTCFMNSVIQSLNTRERLDFFHDRSFEAEINYNPLGT
 GGRLAIGFAVLLRALWKGTHQAFQPSKKAIVASKASQFTGYAQHDAQEFMAFLDLGLHEDLNRIQNKPY
 TETVSDGRPDEVAAEAWQRHKMRNDSFIVDLFQGGYKSKLVCPVCAKVSITFDPFLLPVPLPQKQKV
 LPIFYFAREPHSKPIKFLVSVKENSASSEVLDLSQSVHVKPENLRLAEVIKNRFRHRVFLPSHSLDAVS
 PTDVLLCFELLSPELAKERVVVLEVQQRQVPSIPI SKCAACQRKQQSEEEKLKRCTRCYRVGYCNQFCQ
 KTHWPDHKGLCRPENIGYPFLVSPASRLTYARLAQLLEGYARYSVSVFQPPFQGRMALESQSPGCTTL
 LSTSSLEAGDSEREPIQPSELQLVTPVAEGDTGAHRVWPPADRGPVSTSGLSSEMLASGPIEGCPLLAG
 ERVSRPEAAVPGYQHSSESVNTHTPQFFIYKIDASNREQLEDKGETPLELGDDCSLALVWRNNERLQEF
 VLVASKELECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEAWYCPQCKQHREASKQLLWRLPNV
 LIVQLKRF SFRSFIWRDKINDLVEFPVRNLDLSKFCIGQKEEQPSYDL YAVINHYGGMIGGHYTACARL
 PNDRSSQRSDVGWRLFDDSTVTTVDESQVVTRYAYVLFYRRRNSPVERPPRASHSEHPDLGPAEAAAAS
 QGLGPGQAPEVAPTRTAPERFAPPVDRPAPTYSNMEEVD

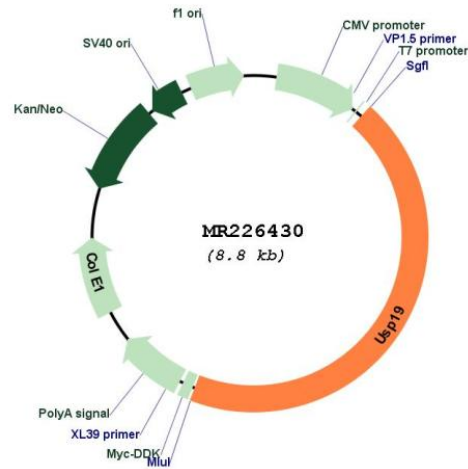
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_145407

ORF Size: 3897 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_145407.3](#), [NP_663382.2](#)

RefSeq Size: 4653 bp

RefSeq ORF: 3900 bp

Locus ID: 71472

UniProt ID: [Q3UJD6](#)

Cytogenetics: 9 F2

MW: 143.9 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 thier 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]