

## Product datasheet for MR211946

### Usp19 (NM\_027804) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp19 (NM_027804) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp19
Synonyms:	8430421I07Rik; AI047774; Zmynd9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211946 representing NM_027804 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCAGGGGCCAGTGTCTACAGGGCCAGGAGGGGGCCAGGACTGGAAGAGGCCACTAGTAAGA  
AGAAACAGAAGGATCGAGCAAACCTGGAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTTCCTCGAAA  
GGAACCAACAAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTGCGC  
GTGGGAACAGGTCCCGTACGTCTGGAGGATGTAGATGCTGCGTTCACAGACACGGACTGTGTGGTGAGGC  
TTCCAGATGGTTCGCGAGTGGGGTGGTGTCTTTGCTGAAATACAAAGTCTTGCACCAAGTGCAGGC  
TCGCAAGGGTGGTCTTCTACAGCTAGTACTACCAAGAAGGTGCCCTCTGCTCACGTGGCCCTCTCTCCTG  
AAACCTCTGGGAACCAAGAGCTGGTGCCAGGTTTGAGTGCAGGAGAACGGGCAAGAGCTGTCTCCCA  
TTGCCCTGGAGCCAGGCTCTGAGCCCCGACAGCTAAACAGGAAGCCGAAACAGAAAGCGGGCCAGGG  
CCGTGGTGGAGTAGGCTCGGGGGCTGGCCCTGGGACACAGGCAGGGCCACGCGCAAGAGGGCTGTTTAC  
CTCCGACAGGGCCAGAAGGGGAAGGTCATGGATGGCCCCGGCCCCAGGGTGTGCCCCGTCTTTCC  
TGTCTGACTCAGTACCCAGGTTGAGGCTGAGGAGAAGCTCTGTGCTCCACCAATGAACACTCAAACAAG  
TCTCTTGAGCTCAGAGAAGAGTTTAGCCCTTCTGACAGTAGAGAAGACAGTGTCCCCAGGAATGACCCA  
GTCGCCCGGTTATGGTCCAGGACAGAGACCCTGAGCCTGAGCAAGAAGACCAAGTCAAAGAGGAGATGG  
CACTTGGGGCTGATCCTACAGCCTTGGTGGAGGAACCAGAGTCTATGGTGAACCTGGCATTGTCAAGAA  
CGACTCGTATGAGAAGGGCCCGATTCCGGTGGTGGTGCACGTGTACGTGAAGGAGATCCGACGGGACAGC  
TCCCGAGTGTCTTCCGAGAGCAGGACTTCACACTGATCTTCCAGACCAGGGACGGAAACTTTCTGAGGC  
TGCATCCGGGCTGTGGGCCCCACACCATCTTCCGATGGCAGGTGAAGCTCAGAACTTGATTGAACCAGA  
GCAGTGTACGTTCTGTTTACGGCCTCTCGAATCGATATCTGCCTCCGGAAGCGGCAGAGTCAGCGCTGG  
GGGGACTGGAGGCCCTGCTACACGAGGTGCAGTGGTGGTGAAGGTTGCCGTGCCACAGGCCCAA  
CCCCTTTGGATTCAACCCTCCAGGAGGTGCCCCACCCCTGACAGGCCAGGAGGAAGCCAGGGCTGT  
GGAGAAGGAAAAACCAAGGCTCGATCAGAGGACTCAGGGCTGGATGGTGTGGTGGCCCGCACCCCTTG



[View online >](#)

GAGCATGTAGCCCCAAAGCCAGACCCACACTTGGCCTCGCCCAAACCCACGTGTATGGTGCCTCCAATGC  
CGCACAGTCCAGTTAGTGGGGATAGTGTGGAGGAGGACGAAGAGGAAGAGAAGAAGGTGTGCCTGCCAGG  
CTTCACTGGCCTTGTCAACTTAGGGAACACCTGCTTCATGAATAGCGTCATTAGTCTTTGTCCAACACT  
CGGGAACCTCGTGACTTCTTTCACGACCGATCCTTTGAAGCTGAGATTAACAATAAACCATTGGGGA  
CTGGTGGGCGCCTCGCCATTGGCTTTGCTGTGCTGCTCCGGGCCATGGAAGGGTACTACCAAGCCTT  
TCAGCCCTCCAAGCTAAAGGCCATTGTGGCAAGCAAGGCCAGCCAGTTCACAGGCTATGCACAGCATGAT  
GCTCAAGAGTTTATGGCTTTCTTGGTGGGCTACATGAAGACCTCAATCGAATCCAAAACAACCCCT  
ACACAGAGACTGTGGACTCGGACGGGCGGCCGATGAGGTGGTAGCCGAGGAAGCATGGCAGCGGCACAA  
GATGAGAAATGATTCACTTATTGTGGACCTGTTTCAGGGCCAGTACAAGTCAAAGCTGGTGTGCCCTGTG  
TGTGCCAAGTCTCCATCACTTTTACCCGTTCTTTATCTGCCGGTACCCTTGCCACAAAAGCAAAAGG  
TTCTCCCATATTTTATTTTGGCAGGGAGCCCCACAGCAAGCCCATCAAGTTCCTGGTGTGAGTGTGAGCA  
GGAGAACTCCAGCGGAGTGAAGTGTGGACTCCCTCTCTCAGAGTGTCCACGTGAAGCCTGAGAACCTG  
CGCCTAGCCGAGTAATTAAGAACGTTTCCACCGTGTTCCTTGGCCTCCCACTACTGGACGCTGTGT  
CCCCACGGACGTGCTCCTGTCTTGGCTGCTCTCCCAAGTGGCTAAGGAGCGGGTAGTAGTGT  
GGAGGTGACGAGCGCCCAAGTACCCAGCATCCCTATCTCAAGTGGCAGCCTGCCAGCGGAAGCAG  
CAATCAGAAGAAGAAAAGCTGAAGCGCTGTACCGTTGCTACCGTGTGGGCTACTGCAACCAGTTCTGCC  
AGAAAACCCATTGGCCTGACCACAAGGCCCTGCGGCCCTGAGAACATTGGCTACCCCTTCTGGTGTGAG  
TGTGCCTGCTTACGCGCTCACTTATGCCGCTTGTCTCAGCTACTAGAAGTTATGCCCGGTACTCTGTG  
AGTGTATTCACACCGCCCTTCCAGCCTGGCCGATGGCTTTGGAATCGCAGAGCCCTGGCTGTACCACGT  
TGCTTTCAACCAGCTCTCTGGAGGCTGGGGACAGTGAAGAGAACCATTAGCCTTCTGAGCTCCAGCT  
GGTGACCCCTGTGGCTGAAGGGGATACAGGGGCTCACCGAGTATGGCCGCTGCTGATAGGGGCTCTGTG  
CCTAGCACAGTGGACTCTTCTGAGATGCTGGCCAGTGGGCCATCGAAGGTTGTCCCTTGTCTGTG  
GTGAGAGGATCTCGGCTGAAGCTGCTGTGCTGGTACCAACTCAAGTGAATCTGTGAATACCCA  
CAGCCCCAGTTCTTATCTATAAAAATTGATGCATCAAACCGTGAGCAGCGGCTGGAGGACAAAGGGGAG  
ACACCATTGGAGCTAGGTGATGACTGTAGCCTGGCTCTGGTGTGGCGGAACAATGAACGCCTGCAGGAGT  
TTGTGTTGGTAGCCTCCAAGGAGCTGGAATGTGCTGAAGATCCAGGCTCTGCTGGTGTGAGGCTGCCGTGC  
TGGCCACTTACCCTGGACCAAGTGCCTCAACCTTTTACACGGCCTGAAGTGTGGCACCTGAGGAGGCC  
TGGTACTGCCACAGTGCACACAGCATCGTGAGGCCTCAAACAGCTGCTGTTGTGGCGCCTACCGAACG  
TGCTGATTGTGCAGCTCAAGCGCTTCTCCTTTCGTAGTTTCATTTGGCGAGACAAGATCAATGACTTGGT  
GGAGTTTCTGTTTCGGAACCTGGACTTGAGCAAGTTCTGTATCGGTGAGAAAGAGGAGCAGCTGCCTAGC  
TATGACCTGTATGCTGTATCAACCACTACGGAGGCATGATCGGTGGCCACTATACTGCTTGTGCACGGC  
TGCCCAATGATCGAGTAGCCAGCGCAGTACGTTGGGCTGGCGCTTGTGATGACAGCAGCGGTGACAAC  
AGTAGACGAAAGCCAGGTCGTGACGCGCTATGCCTATGTTCTTCTACCGTCTGCGAAGTCTCCTGTG  
GAGAGACCCCCAGGGCAAGTCACTCTGAACACCACCCAGACCTAGGCCCTGCAGCTGAGGCTGTGCCA  
GCCAGGCTTCCCGGATTTGGCAGGAGCTCGAGGCCGAGGAGGAGATGGTACCTGAGGGGCTGGGCTCT  
GGGTCTTGGGGGCCCAAGACTGGGTGGGGCCCCCGCCACGTGGCCCTACCACACCAGACGAGGGTTGC  
CTCCGATACTTTGCTCTGGTACCGTGGCGGCTTGGTGGCCCTGTGCTCAACGTATTCTATCCTCTGG  
TATCTCAGAGTCGCTGGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211946 representing NM\_027804  
 Red=Cloning site Green=Tags(s)

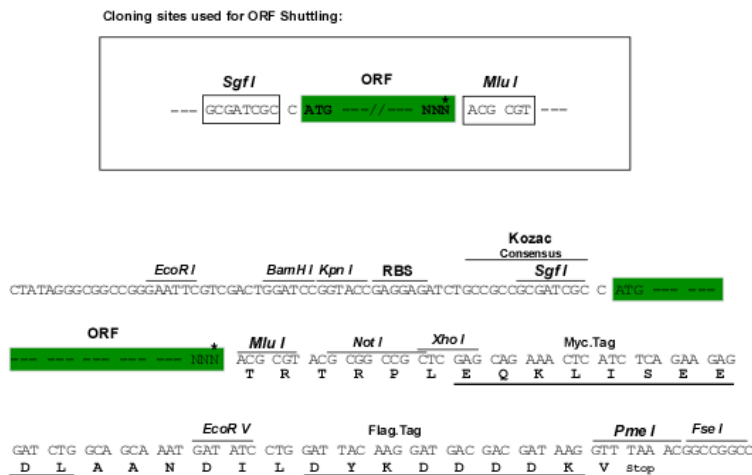
MSAGASATGPRRGPPGLEEATSKKKQKDRANLESKDGDARRVSLPRKEPTKDELLEDWRQSADEVIVKLR  
 VGTGPVRLLEDVDAAFDTDCVRLPDGRQWGGVFFAEIQSSCTKVQARKGGLLQLVLPKKVPLLTPWPLL  
 KPLGTQELVPLQCQENGQELSPIALEPGSEPRRAKQEARNQKRAQGRGEVSGAGPGTQAGPSAKRAVH  
 LRRGPEGEGSMDGPGQGDAPSFLSDSATQVEAEEKLCAPPMTQTSLLSSEKSLALLTVEKTVSPRNDP  
 VAPVMVQDRDPEPEQEDQVKEEMALGADPTALVEEPESMVNLAFVKNDSEYKGPDSVVVHVYVKEIRRDS  
 SRVLFREQDFTLIFQTRDGNFLRLHPGCGPHTIFRWQVKLRNLIEPEQCTFCFTASRIDICLRKRQSQRW  
 GGLEAPATRGAVGGAKVAVPTGPTPLDSTPPGGGPHPLTGQEEARAVEKEKPKARSEDSGLDGVVARTPL  
 EHVAPKPDPHLSPKPTCMVPPMPHSPVSGDSVEEDEEEKVKCLPGFTGLVNLGNTCFMNSVIQSLSNT  
 RELRDFHFDRSFEAEINYNPLGTGGRLAIGFVLLRALWKGTHQAFQPSKKAIVASKASQFTGYAQHD  
 AQEFMAFLLDGLHEDLNRIQNKPYTETVSDGRPDEVVAEEAWQRHKMRNSFIVDLFQQQYKSKLVCPV  
 CAKVSIITFDPFLYLPVLPQKQKVLPIFYFAREPHSKPIKFLVSVSKENSASEVLDLSQS SVHVKPENL  
 RLAEVIKRNRFHRVFLPSHSLDAVSPTDVLCCFELLSPELAKERVVVLEVQQRQVPSIPIKCAACQRKQ  
 QSEEEKLKRCTRYRVGVCNQFCQKTHWPDHKGLCRPENIGYPFLVSVPASRLTYARLAQLLEGYARYSV  
 SVFQPPFQPRMALESQSPGCTLLSTSSLEAGDSEREPIQPSELQLVTPVAEGDTGAHRVWPPADRGPV  
 PSTSGLSSEMLASGPIEGCPLLAGERVSRPEAAVPGYQHSSESVNTHTPQFFIYKIDASNREQRLEDKGE  
 TPLELGDDCSLALVWRNNERLQEFVLVASKLECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEA  
 WYCPQCKQHREASKQLLLWRLPNVLIVQLKRF SFRSFIWRDKINDLVEFPVRNLDL SKFCIGQKEEQ LPS  
 YDL YAVINHYGGMIGGHYTACARLPNDRSSQSRSDVGVWRLFDDSTVTTVDESQVVTRYAYVLFYRRRNSPV  
 ERPPRASHSEHHPDLGPAAEAAAASQASRIWQLEAEEMVPEGPGLGPWGPQDWVGPVPPRGTTPDEGC  
 LRYFVLGTVAALVALVNVFYPLVVSQSRWR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9027\\_d05.zip](https://cdn.origene.com/chromatograms/mm9027_d05.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



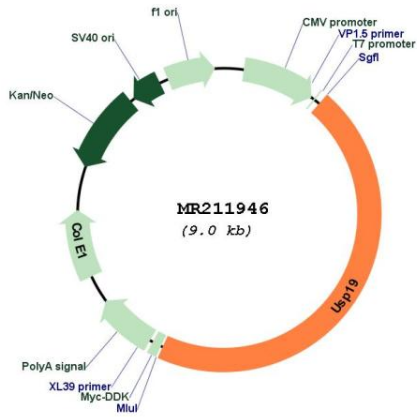
\* The last codon before the Stop codon of the ORF

ACCN: NM\_027804

ORF Size: 4080 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_027804.4</a> , <a href="#">NP_082080.3</a>
<b>RefSeq Size:</b>	4727 bp
<b>RefSeq ORF:</b>	4083 bp
<b>Locus ID:</b>	71472
<b>UniProt ID:</b>	<a href="#">Q3UJD6</a>
<b>Cytogenetics:</b>	9 F2
<b>MW:</b>	151 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211946