

## Product datasheet for **MG226427**

### Usp19 (NM\_001168372) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp19 (NM_001168372) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp19
Synonyms:	8430421I07Rik; AI047774; Zmynd9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226427 representing NM_001168372 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTGCAGGGGCCAGTGTCTACAGGGCCAGGAGGGGGCCAGGACTGGAAGAGGCCACTAGTAAGA  
AGAAACAGAAGGATCGAGCAAACCTGGAAAGTAAAGATGGAGATGCTAGGAGAGTGTCCCTTCCTCGAAA  
GGAACCAACCAAGATGAATTGTTGCTCGATTGGAGGCAGAGTGCAGATGAGGTGATTGTTAAGCTGCGC  
GTGGGAACAGGTCCCGTACGTCTGGAGGATGTAGATGCTGCGTTCACAGACACGGACTGTGTGGTGAGGC  
TTCCAGATGGTCGCGAGTGGGGTGGTGTCTTCTTGTGAAATACAAAGTCTTGCACCAAGTGCAGGC  
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CGACTCGTATGAGAAGGGCCCGATTGGTGGTGGTGCACGTGTACGTGAAGGAGATCCGACGGGACAGC  
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CCCCTTTGGATCAACCCTCCAGGAGGTGCCCCACCCCTGACAGGCCAGGAGGAAGCCAGGGCTGT  
GGAGAAGGAAAAACCAAGGCTCGATCAGAGGACTCAGGGCTGGATGGTGGTGGCCCGCACCCCTTG



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GAGCATGTAGCCCCAAAGCCAGACCCACACTTGGCCTCGCCCAAACCCACGTGTATGGTGCCTCCAATGC  
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 GCCAGGGACTAGGCCCTGGCCAGGCCCCGAGGTGGCCCCACGGCGACAGCCCCGAACGCTTCGCCCC  
 CCTGTGGACCGCCAGCCCCACGTACAGCAACATGGAGGAGGTCGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226427 representing NM\_001168372  
 Red=Cloning site Green=Tags(s)

MSAGASATGPRRGPPGLEEATSKKKQKDRANLESKDGDARRVSLPRKEPTKDELLLDWRQSADEVIVKLR  
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 PSTSGLSSEMLASGPIEGCPLLAGERVSRPEAAVPGYQHSSESVNTHTPQFFIYKIDASNREQRLEDKGE  
 TPLELGDCCSLALVWRNNERLQEFVLVASKLECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEA  
 WYCPQCKQHREASKQLLLWRLPNVLIVQLKRF SFRSFIWRDKINDLVEFPVRNLDL SKFCIGQKEEQ LPS  
 YDL YAVINHYGGMIGGHYTACARLPNDRSSQRSVDGWRLFDDSTVTTVDESQVVTRYAYVLFYRRRNSPV  
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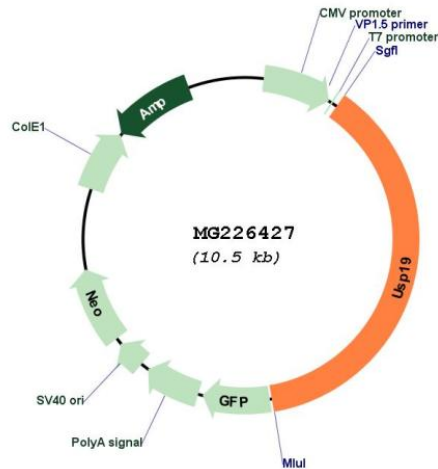
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**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

**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]