

Product datasheet for **RC239311**

USP49 (NM_001286554) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP49 (NM_001286554) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP49
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC239311 representing NM_001286554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATAGATGCAAACATGTAGGGCGTTACGGCTCGCCAGGACCACTCCATCCTGAACCTCAGAAGT
 GGTGCTGCTTAGAGTGTGCCACCAACCGAGTCCGTGTGGGCTGCCTCAAGTGCTCCACGTGGCCTGCGG
 CCGCTATATTGAGGACCACGCCCTGAAACACTTTGAGGAGACGGGACACCCGCTAGCCATGGAAGTCCGG
 GATCTCTACGTGTTCTGTACCTGTGCAAGGACTACGTGCTCAATGATAACCCAGAGGGGACCTGAAGC
 TGCTAAGAAGCTCCCTCTGGCGGTCCGGGGCCAGAAACAGGACACGCCGTGAGACGTGGGCGGACGCT
 GCGGTCCATGGCTTCGGGTGAGGACGTGGTCTGCCGACGCGCTCCTCAGGGACAGCCGAGATGCTC
 ACGGCTCTGTGGTACCGGCTCAGCGCTGCTGGCCAGGACGCTGCGGCTGTGGTTCGAGAAGAGCTCCC
 GGGGCCAGGCGAAGCTGGAGCAGCGCGCAGGAGGAGCCCTGGAGCGCAAGAAGGAGGAGCGCGGAG
 GCGGCGGCGGAGGTGAAACGGCGGCTGCTGGAGGAGTGCCAGCACCCCTCCGCGCAAGAGTGCACGG
 CTGCTCCTGCACAGCCCCGCGACGCGGGCCCGGCTGCCTCGCGCCCCGCGCCCTCCCTACCTCAGCA
 GAGTGCCCGCCGACACTCAAGCTGCGTCGCCAGCCGGCCATGGCCCCAGGCGTACGGGCTGCGCAA
 CCTGGGCAACACCTGCTACATGAACTCCATCCTCCAGGTGCTCAGCCACCTCCAGAAGTTCGAGAATGT
 TTCCTCAACCTTGACCCTTCCAAACCGAACATCTGTTTCCAAAGCCACCAACGGGAAGACTCAGCTTT
 CTGGCAAGCCAACCAACAGCTCGGCCACGGAGCTGTCTTGAGAAATGACAGGGCCGAGGCATGCGAGCG
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 AGTTCAAAGCACATTTCCCTCTGCCGTGAACTGCACACCTCTCCGAGTCATGTGGTCCGGGAAGTGGG
 CCCTAGTGTCCCTTCGCCATGCTCCACTCAGTGTGGAGCCTGATCCCTGCCTTCCGCGGCTACGACCA
 ACAGGACGCGCAGGAATTTCTCTGCGAGCTGCTGCACAAGGTGCAGCAGGAAGTGCAGTCTGAGGGCACC
 ACACGCCGGATCCTCATCCCCTTCTCCAGAGGAAGCTCACAAACAGGTCTTAAAGGTGGTGAATACCA
 TATTTTCATGGGCAGCTGCTCAGTCAGGTACATGTATATCATGCAATTACAAATCCAATACCATTGAGCC
 CTTTTGGGACCTATCCCTGGAATCCCTGAACGCTATCACTGCATAGAAAAGGGTTTGTCCCTTTGAAT
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 AAAGCAGTTAATGATCTACAGACTACCTCAGGTTCTCCGGCTGCACCTTAAAAGATTGAGGTGGTCTGGC
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 GCAGGGACATGCTCTCCTCTTTGACAAAGAGACCTTTGCCTATGATCTCTCCGAGTGGTCATGCATCA
 CGGAAAAGGGTTTGGCTCAGGACTACACAGCCTATTGCTACAACACAGAGGGAGGTTTTTGGTCCAC
 TGCAATGACTCAAAGCTGAATGTATGCAGTGTGAGGAAGTGTGCAAAACCCAGGCCTACATCCTTTTTT
 ACACTCAAAGAACAGTGCAGGGCAATGCAAGAATCTCAGAAACCCATCTCCAAGCTCAGGTGCAGTCCAG
 CAACAATGATGAAGGCAGACCACAGACATTTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239311 representing NM_001286554
 Red=Cloning site Green=Tags(s)

MDRCKHVGRLRLAQDHSILNPQKWCCLECATTESVWACLKCSHVACGRYIEDHALKHFEETGHPLAMEVR
 DLYVFCYLCKDYVLNDNPEGDLKLLRSSLLAVRGQKQDTPVRRGRTLRSMSGEDVVLPPRAPQGQPQML
 TALWYRRQRLARTLRLWFEKSSRGQAKLEQRRQEEALERKKEEARRRRREVKRRLEELASTPPRKSAR
 LLLHTPRDAGPAASRPAALPTSRRVPAATLKLRRQPAMAPGVTGLRNLGNTCYMNSILQVLSHLQKFREC
 FLNLDPSKTEHLFPKATNGKTQLSGKPTNSSATELSLRNDRAEACEREGFCWNGRASISRSLELIQNKEP
 SSKHISLCRELHTLFRVMWVGKVALVSPFAMLSVWSLIPAFRGYDQQDAQEFLCELLHKVQQELESEGT
 TRRILIPFSQRKLTQVLKVVNTIFHGQLLSQVTCISCNYSNTIEPFWDLSEFPERYHCIEKGFVPLN
 QTECLLTEMPLAKFTETELEGRIYACDQCNSKRRKSNPKPLVSEARKQLMIYRLPQVLRHLKRFWSG
 RNHREKIGVHVVDQVLTMEPYCCRDMLSSLDKETFAIDL SAVVMHGGKFGSGHYTAYCYNTEGGFVWH
 CNDSKLVCSVEEVCKTQAYILFYTQRTVQGNARISETHLQAQVQSSNNDEGRPQTFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

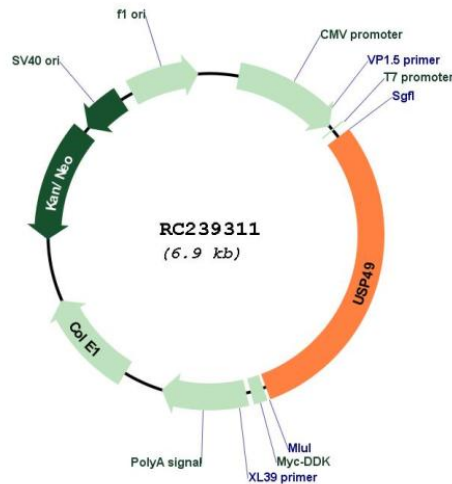
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286554

ORF Size: 2064 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_001286554.2](#)

RefSeq Size:	8822 bp
RefSeq ORF:	2067 bp
Locus ID:	25862
UniProt ID:	Q70CQ1
Cytogenetics:	6p21.1
Protein Families:	Protease, Transcription Factors
MW:	79.6 kDa
Gene Summary:	Specifically deubiquitinates histone H2B at 'Lys-120' (H2BK120Ub). H2BK120Ub is a specific tag for epigenetic transcriptional activation and acts as a regulator of mRNA splicing. Deubiquitination is required for efficient cotranscriptional splicing of a large set of exons. [UniProtKB/Swiss-Prot Function]