

Product datasheet for **MR228924**

Usp3 (NM_001302122) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Usp3 (NM_001302122) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Usp3
Synonyms: AA409661; BC017156
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228924 representing NM_001302122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTAACTTTAGGGTTATCAGCAGCAGGATGCCCATGAATTCATGCGCTACCTTTGGATCATCTAC
ACTTAGAACTTCAGGGTGGCTTCAATGGTGTTCCTCGCTCAGCAATCTACAGGAGAATTCTACACTGTC
TGCAAGTAACAAATGCTGCATAAATGGAGCATCAACTGTTGTGACAGCAATTTGGAGGAATTCTCCAG
AACGAGGTCAACTGCCTCATATGTGGGACAGAGTCGAGGAAGTTTGATCCATTCTAGATCTCTCCTTAG
ATATTCGAAGTCAGTTCAGAAGCAAGCGCTCTAAGAATCAGGAAAATGGGCCAGTTTGCTCCTTAAGAGA
TTGCCTTCGCAGCTTCACTGACCTAGAGGAACTTGATGAGACAGAGTTGTATATGTGCCATAAGTGCAAA
AAGAAACAAAAGTCCACAAAGAAGTTTTGGATTCAAAAACCTCCCAAGGCACTGTGCTTGACCTGAAAA
GGTTTCACTGGACAGCATATTTAAGAAACAAAGTCGATACATACGTTCAATTCCTGAGAGGCTGGA
CATGAAGTGCTACCTACTAGAGCCGAGAACAGTGGTCCAGACAGTTGCCTGTATGACCTCGCTGCTGTG
GTTGTACACCATGGCTCTGGGGTTGGTTCTGGACATTACACAGCATATGCAGTTCACGAAGGCCGCTGTT
TCCATTTCAATGACAGCACTGTGACAGTGACTGATGAGGAGACCGTTGGGAAGGCAAAGGCTACATTCT
GTTTTATGTGGAGCGTCAGGCCAGAGCTGGAGCAGAAAACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228924 representing NM_001302122
Red=Cloning site Green=Tags(s)

MPNFRGYQQDAHEFMRYLLDHLHLELQGGFNGVSRSAIQENSTLSASNKCCINGASTVVTAIFGGILQ
 NEVNCLICGTESRKFDPFLLDLDIPSQFRSKRSKNQENGPVCSLRDCLRSFTDLEELDETELYMCHKCK
 KKQKSTKFKWIQKLPKALCLHLKRFHWTAYLRNKVDTYVQFPLRGLDMKCYLLEPENSGBPDSCLYDLAAV
 VVHHGSGVSGHYTAYAVHEGRWFHFNSTVTVTDEETVGKAKAYILFYVERQARAGAEL

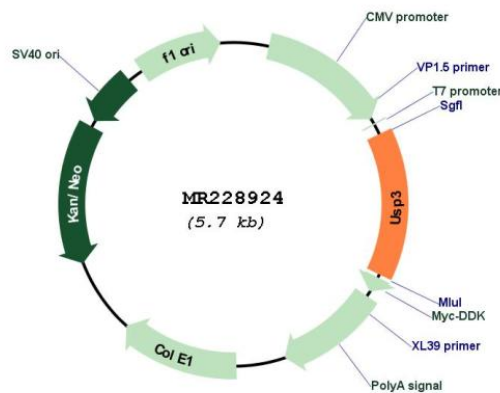
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001302122
ORF Size: 813 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:	<ol style="list-style-type: none">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_001302122.1 , NP_001289051.1
RefSeq Size:	5388 bp
RefSeq ORF:	816 bp
Locus ID:	235441
Cytogenetics:	9 C
MW:	31.3 kDa
Gene Summary:	The protein encoded by this gene is a chromatin-associated histone 2A and 2B deubiquitinating enzyme that negatively regulates the DNA damage response. Mice deficient for this enzyme have reduced hematopoietic stem cell reserves, demonstrating a requirement in hematopoietic stem cell homeostasis. In addition, knock down of protein levels results in spontaneous tumor development and shortened lifespan, consistent with a function in preserving chromosomal integrity. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]