

## Product datasheet for **MC226713**

### Usp3 (NM\_001302122) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Usp3 (NM\_001302122) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Usp3  
**Synonyms:** AA409661; BC017156  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226713 representing NM\_001302122  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCTAACTTTAGGGTTATCAGCAGCAGGATGCCCCGAATTCATGCGCTACCTTTGGATCATCTAC  
ACTTAGAACTTCAGGGTGGCTTCAATGGTGTTCCTCGCTCAGCAATCTACAGGAGAATTCTACTGTC  
TGCAAGTAACAAATGCTGCATAAATGGAGCATCAACTGTTGTACAGCAATATTTGGAGGAATTCTCCAG  
AACGAGGTCAACTGCCTCATATGTGGGACAGAGTCGAGGAAGTTTGATCCATTCTAGATCTCTCCTTAG  
ATATTCGAAGTCAGTTCAGAAGCAAGCGCTCTAAGAATCAGGAAAATGGGCCAGTTTGCTCCTTAAGAGA  
TTGCCTTCGCAGCTTCACTGACCTAGAGGAACTTGATGAGACAGAGTTGTATATGTGCCATAAGTGCAAA  
AAGAAACAAAAGTCCACAAAGAAGTTTTGGATTCAAAAACCTCCCAAGGCACTGTGCTTGACCTGAAAA  
GGTTTCACTGGACAGCATATTTAAGAAACAAAGTCGATACATACGTTCAATCCCACTGAGAGGCCCTGGA  
CATGAAGTGCTACCTACTAGAGCCGGAGAACAGTGGTCCAGACAGTTGCCTGTATGACCTCGCTGCTGTG  
GTTGTACACCATGGCTCTGGGGTTGGTTCTGGACATTACACAGCATATGCAGTTCACGAAGGCCGCTGGT  
TCCATTTCAATGACAGCACTGTGACAGTGACTGATGAGGAGACCGTTGGGAAGGCAAAGGCCATATTCT  
GTTTTATGTGGAGCGTCAGGCCAGAGCTGGAGCAGAAAACTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001302122  
**Insert Size:** 816 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001302122.1, NP_001289051.1</u>
<b>RefSeq Size:</b>	5388 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	235441
<b>Cytogenetics:</b>	9 C
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) has multiple differences in the 5' UTR and coding region and uses a downstream start codon compared to variant 1. It encodes isoform 3, which has a shorter N-terminus compared to isoform 1.</p>