

Product datasheet for **MG208332**

Usp3 (NM_144937) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp3 (NM_144937) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp3
Synonyms:	AA409661; BC017156
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208332 representing NM_144937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTGTCCGCACCTCAGCTCCAGCTGTGCATCGCCCGGACTCAGCCAAGTCCCCAACGGCTCCC
 CGTCGTCCTGGTCTGCAGCGTGTGCAGGTCCAACAAAAGCCCTGGGTCTGTTTGACTTGTCAAGTGT
 CCACTGTGGAAGGTATGTGAATGGCCATGCAAAAAACATTATGAAGATGCACAGATACCCCTTACTCAAC
 CATAAGAGATCAGAAAAGCAGGAGAAAGCTCAGCATACAGTGTGTATGGATTGCAGTAGCTACAGCACAT
 ACTGTTATCGCTGTGACGATTTTGTGGTCAACGACACCAAGCTGGGCCTGGTACAGAAAGTGAGAGAACA
 CTTACAGAACTTGAAAACCTCAGCCTTTACAGCGGACAGGCACAGAAAAAGAAAATTATTGGAAAACCTCA
 TCACTAAACAGCAAGTTATTAAGTAAATGGAAGTACGACTGCCATTTGTGCCACAGGCCTTCGAAATT
 TGGGCAACACTTGTTCATGAATGCTATCCTTCAGTCACTCAGTAACATTGAGCAGTTTTGCTGTTATTT
 CAAAGAACTGCCTGCTGTGGAGTTAAGGAATGGGAAAACAGCAGGAAGGCGAACATACCACACCAGGAGC
 CAAGGGGACAGCAATGTGTCTTTAGTAGAAGAGTTTAGAAAAGACTGTGTGCTTTATGGCAAGGCAGCC
 AGACTGCATTTAGTCTGAGTCCTGTTTTATGTTGTCTGGAAGATCATGCCAACTTTAGGGGTTATCA
 GCAGCAGGATGCCATGAATTCATGCGCTACCTTTGGATCATCTACACTTAGAACTTCAGGGTGGCTTC
 AATGGTGTTCCTCGCTCAGCAATTTACAGGAGAATTCTACACTGTCTGCAAGTAACAAATGCTGCATAA
 ATGGAGCATCAACTGTTGTCACAGCAATATTTGGAGGAATTCACAGAACGAGGTCAACTGCCTCATATG
 TGGGACAGAGTCGAGGAAGTTTGTATCCATTCTAGATCTCTCCTTAGATATTCAGTCAAGTTCAGAAAGC
 AAGCGCTAAGAATCAGGAAAATGGGCCAGTTTGTCTCCTAAGAGATTGCCTTCGCAGCTTCAGTGACC
 TAGAGGAACTTGATGAGACAGAGTTGTACATGTGCCATAAGTGCAAAAAGAAAAGTCCACAAAGAA
 GTTTTGGATTCAAAAACCTCCCAAGCGCTGTGCTTGCACCTGAAAAGTTTTCACTGGACAGCATATTTA
 AGAAAACAAAGTCGATACATACGTTCAATCCCCTGAGAGGCCTGGACATGAAGTGTACTACTAGAGC
 CGGAGAACAGTGGTCCAGACAGTTGCTGTATGACCTCGCTGCTGTGGTTGTACACCATGGCTCTGGGGT
 TGGTTCTGGACATTACACAGCATATGCAGTTCACGAAGGCGCTGGTTCCATTTCAATGACAGCACTGTG
 ACAGTACTGATGAGGAGACCGTTGGGAAGGCAAAGCCCTACATTCTGTTTTATGTGGAGCGTCAGGCCA
 GAGCTGGAGCAGAAAACTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208332 representing NM_144937
 Red=Cloning site Green=Tags(s)

MECPHLSSVCIAPDSAKFPNGSPSSWCCSVCRSNKSPWVCLTCSSVHCGRYVNGHAKKHVEDAQIPLLN
 HKRSEKQEKAQHTVCMDCSSYSTYCYRCDDFVNDTKLGLVQKVREHLQNLNSAFATDRHRKRKLLNS
 SLNSKLLKVNSTTAICATGLRNLGNTCFMNAIQSLSNIEQFCYFKELPAVELRNGKTAGRRTYHTRS
 QGDSNVSLVEEFRKTLCALWQGSQAFSPESLFYVVKIMPFRGYQQDAHEFMRYLLDHLHLELQGGF
 NGVSRSAIILQENSTLSASNKCCINGASTVVTAFGGILQNEVNCLICGTESRKFDPFLDLSDIPSQFRS
 KRSKNQENGPVCSLRDCLRSFTDLEELDETEL YMCHKCKKKQKSTKKFWIQKLPKALCLHLKRFHWTA
 YLRNKVDYVQFPLRGLDMKCYLLEPENSGPDSCLYDLAAVVVHHGSGVSGHYTAYAVHEGRWFHNDSTV
 TVTDEETVGKAKAYILFYVERQARAGAEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_144937
ORF Size:	1560 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_144937.1
RefSeq Size:	2202 bp
RefSeq ORF:	1563 bp
Locus ID:	235441
UniProt ID:	Q91W36
Cytogenetics:	9 C
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]