

Product datasheet for **MC220218**

Usp51 (NM_001137547) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp51 (NM_001137547) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Usp51
Synonyms:	AV136873
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220218 representing NM_001137547
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGGTACACAGGGAGCCCAGGAGATGAAGCCGGAGCTGTGGCCGGAGCCCAAGCCACGTCGGAGA
 ACTTAACAAGTAGGGCAGTGGCAGCTATGAGAAGGTGCTCCCTTCTATCCCGGCTGCTTGTACACCCAG
 CTCAGCTCGGTTTGCCCGCGCCGAAGCCCGCCCTCGGCCAGCCAGGTCCTCCGCTCCAGGGGAGGG
 CGTGGGCTCAAGGCCACCCCGCCTCCCGCAAACCTCCGCTCCCGCCAGCGCCGACCTCCAC
 CCCTGCCAAGCAGCGGTGCGTGGCTGGCGCAATCCAGACGTAGATCCAGGCTGGACCCAGACCCCA
 AACACGGAAAAGCTACTCTAGTGACCATGGCTCCTCTAGGGATTCAGATGGCTCAGAGAACGTTTACTG
 GAGGTAGGTCTAATAAGGGTCCCACAGGCTGCTCATGTAGAGAGCTTAAAGTAGTAAAACTGGC
 AGAAAACCTGCGGATGATCTATCAGCGTTTCATTTGGAGTGAAACCCCGGAGACTAGGAAACGTAAGGC
 AAAGTCATGCATCTGTCAAATATGTAGTACTACAAGAACAGACTCCACTCTGTCTGTCTGTGTATTT
 TTTGGATGCTTTACTGACAAACATATTCACATTCATGCCGAAACAACGCAACACAATTTAGCAGTAGACC
 TCTGTCATGGGGTTATATATTGCTTTATGTGTAGGGATTATGTATATGACAAAGATATAGAAAAGATCGC
 CAAAGAAACAAAAGAAAAATTCTGGGACTGTTATCATCCCTACAGGAGATGCATCTTATCAGCAGTTG
 ATGGCATCTGAGGTGGAAGAAAACCAATTAACCTGCGAGTCAAAAAGATCAGGAGACCAGTTTGGTAAAAAC
 CCAAGAAAAAGAGGAGGAAAAAGACAATGTATTACTGTAGGCTTCAGAGGATTAATTAATCTTGGTAA
 TACTTGCTTTATGAATTTGATTGTTCCAAGTACTACTCACATCCGCTACTGAAAGAGTTCTTCTTTTCA
 AATAAGCACAAATGTATGATGACAAGCCCGAGCTTGTTTAGTCTGCGAGATGTCTTTACTTTTTCAAG
 CATGTACTCGGGGAACCAAAGTCTCATATCCCTATAAATTAACACCTGATATGGATCCATGCAGA
 GCATCTAGCAGGCTACAGACAACAGGATGCTCAGGAGTTTCTTATTGCCATATTGGATGTGTGCATAGA
 CACAGCAGAGATGATGGTATCGACCAGGAAGGTAACCTCAACTGCTGTAATTGCATCATAGATCACATCT
 TTACAGGTAGTCTGCAGTCAGATTTAACAATGTCAAGTTTGTGATGGTGTCTCTACTACCATAGACCCATG
 CTGGGACATTAGCTTGGATTTGCTGGGCTTATACTCCAGGGAGGGCTAGTAGTAGCACATCGAGTAGG
 GATGGCCAGAAGCCAGGTCATCTCACTACAGATTGCCTGAAGTGGTTTACAAGGCCGAAAGACCTGG
 GTAGCAGTGCCAAAATCAAATGCAGTCAATGCCAAAGCTACCAGGAATCTACCAAACAGCTCACAATGAA
 GAAATTACCGATTGTGGCTGCTTTCACCTGAAAAGATTTGAACATTTAGGCAAACAGAGACGAAAGATT
 AATAGTTTTATCTGTTTCTTTGGAGCTGGACATGACCCGTTCTTGGCTTCTACTAAAGAAAGCATAA
 TGAAGGCCAGCCATTAACAGAGTGTGTACCCAGTGAGAATAAGTATTCTTTGTTTGCAGTAATTAACCA
 CCATGGAACCTTTGGAAAGTGGCCATTACACCAGTTTTGTCCGACAGGAAAAGACCAAGTGGTTACAGCTG
 GATGATGCTGTAGTCACCAAGGCTACAATGGAAGAATTAATCAATAGTGAAGGGTATCTACTGTTCTATC
 ATAGGCAAGATATAGAGAAAGAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001137547
- Insert Size:** 1986 bp
- OTI Disclaimer:** 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).
- 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_001137547.1](#), [NP_001131019.1](#)

RefSeq Size: 2249 bp

RefSeq ORF: 1986 bp

Locus ID: 635253

UniProt ID: [B1AY15](#)

Cytogenetics: X F3

Gene Summary: Deubiquitinates histone H2A at 'Lys-13' and 'Lys-15' and regulates DNA damage response. USP51 is recruited to chromatin after DNA damage and regulates the dynamic assembly/disassembly of TP53BP1 and BRCA1 foci.[UniProtKB/Swiss-Prot Function]