

## Product datasheet for **MR214044**

### Usp51 (NM\_001137547) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR214044 representing NM\_001137547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

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 GATGATGCTGTAGTCACCAAGGCTACAATGGAAGAATTAAGTCAATAGTGAAGGGTATCTACTGTTCTATC  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >MR214044 representing NM\_001137547  
 Red=Cloning site Green=Tags(s)

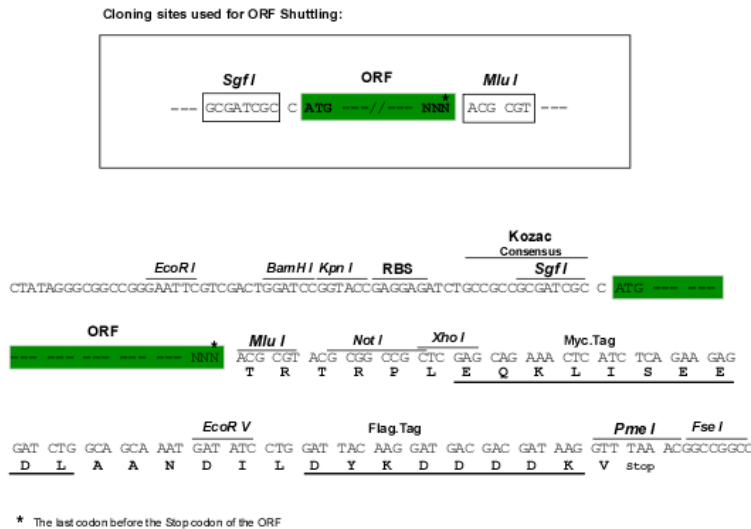
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DDAVVTKATMEELLNSEGYLEFYHRQDIEKE
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9093\\_g11.zip](https://cdn.origene.com/chromatograms/mm9093_g11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001137547

**ORF Size:** 1983 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\\_001137547.1](#), [NP\\_001131019.1](#)

**RefSeq Size:** 2249 bp

**RefSeq ORF:** 1986 bp

**Locus ID:** 635253

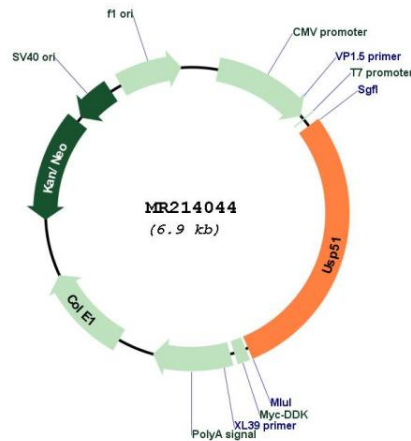
**UniProt ID:** [B1AY15](#)

**Cytogenetics:** X F3

**MW:** 74.8 kDa

**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]

### Product images:



Circular map for MR214044