

## Product datasheet for **RN206484**

### Usp21 (NM\_001127638) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp21 (NM_001127638) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Usp21
Synonyms:	MGC187584
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN206484 representing NM\_001127638  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCCAGGCTTCTGAGCACCGCTGGGCCGGACTCGAGAGCCACCTGTCAATGTACAGCCCCGAGTGG  
 GAGCCAAGATACGTTTTCTCCCGGGCCCGCAGCAAGGAGCGCGAAACCCAGTTCCTGGGCCAAACTC  
 CATGTTACGACCTTTGCCTCCCAGGCCAGTCCCCAGATGAAAGGCTCAAGAACTGGATTTGGGTCGG  
 GGTCCGACCTCAGGCTCTCGTCCTAGAGGTCCCCTTCGAGCAGATCATGGGGTTCCTTGCTGGCTCAC  
 CACCCCAACTGTGGCTCTGCCTCTCCATCCCGACCAACCTAACCCGATCCAAGTCTGTGAGCAGTGG  
 GGACTTGCCTCAATGGGGATTGCCTTGGGAGGGCACCCTGGCACTGGCGAGCTAGGGGCTGCACTGAGC  
 CGCCTGGCACTCCGGCTGAGCCACCCACTTTGAGACGTAGTACTTCTCTCCGGCGTCTTGGGGTTTCC  
 CTGGACCCCTACCTGCTCAGCATAACGACAGAGCCCTCCTCCCATGGCTCCTCCACATGATATC  
 TGCCCGGCTTCTGAGCCTTTACTCTGATGACAAGATGGCTCACACACTGCTTCTGGGCTCTGGT  
 CATGTTGGCCTCCGAAATCTAGGAAATACATGTTCTGAAACCGCGTGTACAGTGTGAGCAGCACAA  
 GGCTTCTCGAGACTTTGTCTGCGAAGGGACTCCGGCAAGAGGTGCCCGAGGAGGCCGAGCCAGGA  
 ACTCACAGAAGCCTTTCAGATGTGATTGGTGCCTCTGGCACCTGACTCCTGTGAAGCTGTGAATCCT  
 ACCCGATTCCGGGCTGTCTTCCAGAAATACGTCCTTCTTCTCTGGATACAGCCAGCAGGATGCCAAG  
 AGTTCCTGAAGCTCCTTATGGAGCGTTGCACCTCGAAATCAACCGACGAGGCCCGGGCACCACCAAT  
 TCTGGCCAGTGGTCCAGTTCCTCCCACTCGCCGAGGAGGGCTCTGCATGAAGAACCTGAAGTGAAGT  
 GATGATGACCGAGCCAACCTAATGTGGAAGCGCTACCTGGAGCGAGAAGACAGCAAGATTGTGGACCTGT  
 TTGTGGCCAGCTGAAAAGTTGCCTCAAGTGGCAGGCTGTGGGTATCGCTCCACGACCTTCGAGGTTTT  
 TTGTGACCTGTCCCTGCCATCCCAAGAAAGGATTTGCTGGGGCAGAAAGTGTCTTTGCGGGATTGCTTC  
 AGCCTTTTACCAAGGAGGAGGAGCTAGAGTCGGAGAATGCCCAAGTATGTGACCGATGTGCGCAGAAAA  
 CACGAAGTACAAAAAGTTGACAGTACAAAGATTTCCCGAATCCTCGTCTCCATCTGAACCGATTTTC  
 CACCTCCCGAGGCTCCATCAAGAAAAGTTGAGTGGTGTAGACTTCCCACTGCAGCGACTAAGCCTAGGG  
 GACTTTGCCAGCGACAAAGTGGGAAGCCCTGTCTACCAGCTGTATGCCCTTTCGAACCACTCGGGTAGTG  
 TCCACTATGGCCACTACACAGCCCTGTGCCGTGCCAGACTGGTGGCATGTCTACAATGACTCCCGTGT  
 CTCCTGTCAGTAAAACAGGTGGCATCCAGTGAAGGCTACGTGCTGTTCTACCAATTGATGCAGGAA  
 CCACCTCGGTGCCTGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001127638
- Insert Size:** 1698 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\\_001127638.1](#), [NP\\_001121110.1](#)

**RefSeq Size:** 2266 bp

**RefSeq ORF:** 1698 bp

**Locus ID:** 688466

**UniProt ID:** [B2GUX4](#)

**Cytogenetics:** 13q24

**Gene Summary:** Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A releases the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation. Regulates gene expression via histone H2A deubiquitination. Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates. Deubiquitinates BAZ2A/TIP5 leading to its stabilization.[UniProtKB/Swiss-Prot Function]