

Product datasheet for **RN209366**

Usp16 (NM_001100501) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Usp16 (NM_001100501) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Usp16 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >RN209366 representing NM_001100501
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAAGAAACGAACAAAGGGGAAAAGTGTTCAGAAAAGGCTTCTTCTGAATCTACAGAACCAATGT
 GCAGACACCTTAGAAAAGGGTTGGAACAAGGTAATTTGAAAAAGCTTTGGTAAATGTGGAATGGAATAT
 CTGCCAAGACTGTAAGACTGACAATAAAGTGAAAGATAAATCTGAGGAAGAAGCAGAAGACCCCTCGGTT
 TGGCTGTGTCTTAAATGTGGCCATCAGGGCTGTGGCAGAGATTCCAGGAGCAGCATGCCCTGAAGCACT
 ACACAACACCAAGGTCTGAACCTCACTACCTGGTGCTTAGTTGGACAACCTGGAGCGTCTGGTGTACAA
 GTGTGATGAGGAAATCAAGTACTGCAGTCAAACCCGGCTGGGCCAAGTGGTTGATTATGTTAGAAAGCAA
 GCTGGCAGAATAACTTCAAAACCAGAGAAAAATAATGGACACATTGAGCTTGAAAATAAAAAATTGGAGA
 AAGAGAGTAAAAATGAACAAGAGAGAGAAAAATCGGAAAGCATGGCTAAAGAAAACATCCCTTGGACTC
 TGCTTCCAGATAACGGTGAAAGGACTCAGCAACTTGGGAATACTTGTTCCTCAACGCTGTTATGCAG
 AACTTGTCAAAAACGCCAGTGTAGAGAACTACTAAAAGAAAGTGAAGATGTCTGGAACAATTGAAAAA
 TAGAGCCACCTGATCTGGCACTCACAGAACCTTTAGAAGTAAACCTTGAACCTCCAGTCCCTTACTTT
 AGCCATGAGCCAGTTTCTTAATGAGATGCAAGAGAAACAAAAACGAATTGTAACACCTAAAGAGCTCTTT
 TCTCAGGTCTGTAAGAAAGCAACACGTTTTAAAGGGTACCAACAACAAGCAGCCAGGAGCTGCTTCGCT
 ACCTATTGGACGGGATGAGAGCGGAAGAGCACCAAGAGTGAGTAAAGGAATTCTTAAAGCATTTGGTAA
 TTCTACTGAAAAATTGGATGAAGAAGTAAAAATAAAGTTAAAGATTATGAAAAGAAAAAGGCAATCCCA
 AGTTTTGTGGACCGCATCTTCGGTGGCAACTGACTAGTACAATCATGTGTGATGACTGCAGGACTGTCT
 CCTTGGTGCATGAGTCTTTCCTGATTTGTCTCTCCAGTTTTAGATGATCAGAGTGGTAAGAAAAATAT
 AAATGATAAAAAATGTGAAGAAGACAATGGAGGAAGAAGATAAAGACAGTGAGGAAGAGAAAGATGACAGC
 TACATGAAAACACGGAGTGACGTGCCCTCAGGAACAAGCAGCACACAGAAAGAAAGCAAAAGAACGAAG
 CAAAAAGCAAGCAAGAACCAACGAAGGCAACAAAAATTAAGAAAGGTTTCTTCACTTCAACGAGAT
 CTGCACCACTAACTACTGAAGACAATGACCATGAAGCTGAGACGGCACTTCCGGGAGAAGGGGAAGTG
 GATACTGAGTTCAACCGTGGCTCTCAAGAGGAGCTCACACAGACAGAGCTCTGTGCTAATCAGAAAGATG
 TGAATGGCCAAGAGGAAATGATAGAAAGCGCTGCCGATGAGCGGAAATGCCAGAGCACCCGGAGGTGAA
 AAGTGTACGACCCGAGAGTGATCTGGGGAGTTGACTTCTGCTCCTGAGTGTCTAGAGATTTAAATGGT
 GCCTTCTGGAAGAAAGGACCAGTGGAGAGCTAGACATTACCAATGGTTTAAAAACCTTACTTTGATG
 CTGCTGTTGATCCTGATGAAATAAGTATAGAGATTCTGAATGACAGCCATTCTCCTGCGTTAAAGGTGTA
 TGAGGTGATGAATGAGGACCCAGAACTGCTTTCTGTACCCTTGCAAACCGGGAAGCTTTTAGTACTGAT
 GAGTGTCAATCCAACATTGTTTGTATCAGTTCACCCGCAATGAGAACTTCAAGATGCAATAAACTGC
 TTTGTGAAGTGTGCACAAGACGGCAGTGTAAATGGACCAAGGCAATATAAAAGGTGAAAGGAAACATGT
 TTACACCAATGCCAAGAAGCAGATGCTGGTTCCCTTGTCTCCTGTACTCACTCTTCAATTAAGAGA
 TTTACAGCAGGCTGGTTTTAACCTACGCAAAGTTAACAAACACATAAAGTTCCGGAAATCTTAGATTTGG
 CTCCTTTTTGTACCCTTAAATGTAAGAAGTGTCTGAGGAAAGTACAAGAGTGTGTATTCTTATATGG
 AGTTGTGGAACACAGTGGCACTATGAGGTCAGGGCATTACACTGCCTACGCAAAGGAAAGAACTGCAAGC
 TGTCATCTCTAATCTTGTCTTCAATGGTGACATTCCGCAAGATTGTGAAATGGAGTCAACCAAGGGC
 AGTGGTTTACATCAGCGACACACAGTCAAGCGGTGCCTATAACTAAAGTACTGAACTACAAGCTTA
 TCTCCTATTTTATGAGAGAATACTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001100501
Insert Size: 2478 bp

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| 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: | <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_001100501.1 , NP_001093971.1 |
| RefSeq Size: | 2903 bp |
| RefSeq ORF: | 2478 bp |
| Locus ID: | 288306 |
| UniProt ID: | Q2KJ09 |
| Cytogenetics: | 11q11 |
| Gene Summary: | Specifically deubiquitinates 'Lys-120' of histone H2A (H2AK119Ub), a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-11' of histone H3 (H3S10ph), and is required for chromosome segregation when cells enter into mitosis. In resting B- and T-lymphocytes, phosphorylation by AURKB leads to enhance its activity, thereby maintaining transcription in resting lymphocytes. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B. [UniProtKB/Swiss-Prot Function] |