

Product datasheet for **MR210833**

Usp16 (NM_024258) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp16 (NM_024258) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp16
Synonyms:	1200004E02Rik; 2810483I07Rik; 6330514E22Rik; UBPM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210833 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAAGAAACGGACCAAGGGGAGAAGTGCTCCAGACACGGTGGCCTCAGAGTCTGCAGAACCAGTGT
 GCAGACACCTTAGAAAAGGGTTGGAACAAGGTAATTTGAAAAAGCTTTAGTAAATGTGGAGTGGAAAT
 CTGCCAAGACTGTAAAGACTGACAATAAAGTGAAAGATAAACCTGAGGAGGAAGCAGAAGACCTTCGGTT
 TGGCTCTGTCTTAAATGTGGCCATCAGGGCTGTGGCAGAGATTCTCAGGAGCAGCATGCCTGAAGCACT
 ACACGACACCGAGATCCGAGCCTCACTACCTGGTGTCTCAGTCTGGACAACCTGGAGCGTCTGGTGCTACAA
 GTGTGACGAGGAAGTCAAGTACTGTAGCTCAAACCGATTGGGCCAAGTGGTTGATTATGTTAGAAAAACA
 GCTGGCGTAAGAACTTCAAACCCAGCAGAGAAAAATAATGGACACATTGAGCTCGAAAAATAAAAAATTGG
 AGAAAGAGAGTAAAAATGAACAAGAGAAAGAGAAATCGGAAAACCTGGCTAAAGAAACTATCCCATGGA
 CTCTGCTTCCCAGATAACTGTGAAAGGACTCAGTAATTTGGGGAATACTGTTTTCTCAATGCAGTTATG
 CAGAACTTGTCAAAACGCCAGTCTTAGAGAACTACTAAAAGAAGTGAAGATGTCTGGAACGATTGTAA
 AAATAGAGCCACCTGATCTGGCACTAACAGAACCTTTAGAAGTAAACCTCGAGCCTCCAGGTCTCTTAC
 TTTAGCCATGAGCCAGTTTCTCAGTGAGATGCAAGAGAACAAAAAGCGAGTTGTGACACCTAAAGAGCTC
 TTTTCTCAGGTCTGTAAAAAGCAACACGTTTTAAAGGGTACCAGCAACAAGACAGCCAGGAGCTGCTTC
 GCTACCTACTGGATGGGATGAGAGCGGAAGAACAACCAAGAGTGAAGTAAAGGAATTTTAAAGCATTGG
 TAATCTACTGAAAAATTGGATGAAGAAGTAAAAATAAAGTTAAAGATTATGAAAAGAAAAAGGCAATC
 CCGAGTTTTGTGGACCGCATCTTGGTGGCGAGCTGACTAGTACGATCATGTGTGATGAATGCAGGACTG
 TCTCCTTAGTGCAATCGTTCCTTGATTTGTCTCTCCAGTTTTAGATGATCAGAGTGGTAAGAAAAAG
 TATAAATGATAAAAAATGTGAAAATGACAATGGAGGAAGAAGATAAAGACAGTGAGGAAGAGAAAGATGAC
 AGCTACATGAAATCAAGGAGCGATCTTCCGTGAGGACAAGCAAGCACCTACAGAAAAAGCAAAGAAGC
 AGGCCAAAAAGCAGGCCAAGAACCAACGAAGGCAACAAAAAATCAAGAAAGATTTCTCACTTCAATGA
 GCTCTGCGCCACTGACTACACGGAAGACAATGAACGTGAAGCTGACACAGCACTTGGGGAGAAGTGGAA
 GTGGATACCGACTCCACCCATGGTTCTCAAGAGGAGGCCACACAGATAGAGCTGTCTGTTAACAGAAGG
 ATTTGGATGGCCAAGAGAGCATGATAGAAAGGACACCTGATGTGCAGGAAAGCCAGAGGACCTAGGAGT
 GAAAAGTGCTAACACCGAGAGTGTCTGGGGATTGTGACGCTGCTCCTGAATGCCTAGGGATTTCAAT
 GGTGCCTTCTGGAAGAAAGGACCAGTGGAGAAGTACATTATCAATGGTTTAAAAACCTTAATTTGA
 ATGCTGCTGTTGATCCTGATGAAATAAATATAGAGATTCCGAATGACAGTCACTTGCACCCAAGGTATA
 TGAGGTGATGAACGAGGACCCAGAAACTGCTTTCTGTACCCTCGCGAACCCGAGAAGCGTTTTAGTACTGAT
 GAGTGTCCATTCAACATTGCTTATATCAGTTCACCCGGAATGAGAACTTCAAGATGCCAATAAAGTGC
 TTTGTGAAGTGTGTTCAAGACGGCAGTGTAAATGGACCAAGGCAAAATATAAAAGTGGACAGGAGACATGT
 TTACACCAATGCCAAGAAGCAGATGTGGTCTCCCTCGCGCTCCTGTCTCACTTGCATTTAAAGCGA
 TTCCAGCAGGCTGGTTTTAACCTGCGCAAAGTTAACAAACACATAAAGTTTCCAGAAATCTTAGATTTGG
 CTCCTTTTTGTACCCTTAAATGTAAGAATGTTGCTGAAGAAAGTACACGAGTGTGTATTCTTATATGG
 AGTTGTTGAACACAGTGGTACTATGAGGTCAGGGCATTACACTGCCTATGCGAAGGAGAGAACTGCAAGC
 TGTCACTCTCCAATCTTGTCTTACCGTGACATTCCACAAGATTGTGAAATGGAATCAACCAAGGGC
 AGTGGTTTCACATCAGCGATACACATGTGCAAGCTGTGCCTATAACTAAAGTACTGAACTACAAGCATA
 TCTCTATTTTATGAGAGAATACTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210833 protein sequence
 Red=Cloning site Green=Tags(s)

MGKKRTKGRSAPDVTASESAEPVCRHLRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDKPEEEAEDPSV
 WLCLKCGHQGGRDSQEQHALKHYYTTPRSEPHYLVLSDNWSVWCYKCDDEEVKYCSSNRLGQVVDYVRKQ
 AGVRTSKPAEKNNGHIELENKLEKESKNEQEKESENKAKETIPMDSASQITVKGLSNLGNTCFFNAVM
 QNLSTPVLRELLKEVKMSGTIVKIEPPDLALTEPLEVNLEPPGPLTLAMSQFLSEMQENKRVVTPKEL
 FSQVCKKATRFKGYQQDSQELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLDDEEVKNKVKDYEKKAI
 PSFVDRIFFGGELTSTIMCDECRVSLVHESFLDLSLPVLDQSGKKSINDKNVMTMEEDKDSEEEKDD
 SYMKSRSDLPSGTSKHLQKAKKQAKKQAKNQRQKQIQRFLHFNELCATDYTEDNEREADTALAGEVE
 VDTDSTHGSQEEATQIELSVNQKDLGGQESMIERTPDVQESPEDLGVKSANTESDLGIVTPEPCPRDFN
 GAFLEERTSGELDIINGLKNLNLAAVDPDEINIEIPNDSHSAPKVYEVMMNEDPETAFCTLANREAFSTD
 ECSTIQHCLYQFTRNEKLQDANKLLCEVCSRRQCNGPKANIKGDRRHVYTNAKKQMLVSLAPPVLTLLKRL
 FQQAGFNLRKVNKHIKFPEILDAPFCTLKCKNVAEESTRVLYSLYGVVEHSGTMRSGHYTAYAKERTAS
 CHLSNLVLRHGDIPQDCEMESTKGQWFHISDTHVQAVPITKVLNSQAYLLFYERIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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_024258.1](#), [NP_077220.1](#)

RefSeq Size: 2926 bp

RefSeq ORF: 2478 bp

Locus ID: 74112

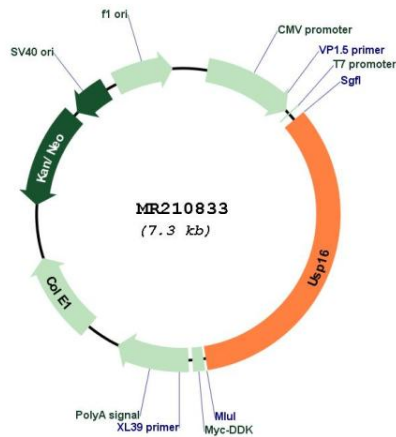
UniProt ID: [Q99LG0](#)

Cytogenetics: 16 C3.3

MW: 93.4 kDa

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 (PubMed:24034696). Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210833