

Product datasheet for **MC221839**

Usp16 (NM_024258) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp16 (NM_024258) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC221839 representing NM_024258
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAAGAAACGGACCAAGGGGAGAAGTGCTCCAGACACGGTGGCCTCAGAGTCTGCAGAACCAGTGT
 GCAGACACCTTAGAAAAGGGTTGGAACAAGGTAATTTGAAAAAGCTTTAGTAAATGTGGAGTGGAAAT
 CTGCCAAGACTGTAAGACTGACAATAAAGTGAAAGATAAACCTGAGGAGGAAGCAGAAGACCTTCGGTT
 TGGCTCTGTCTTAAATGTGGCCATCAGGGCTGTGGCAGAGATTCTCAGGAGCAGCATGCCTGAAGCACT
 ACACGACACCGAGATCCGAGCCTCACTACCTGGTCTCAGTCTGGACAACCTGGAGCGTCTGGTGCTACAA
 GTGTGACGAGGAAGTCAAGTACTGTAGCTCAAACCGATTGGGCCAAGTGGTTGATTATGTTAGAAAAACA
 GCTGGCGTAAGAACTTCAAACCCAGCAGAGAAAAATAATGGACACATTGAGCTCGAAAAATAAAAAATTGG
 AGAAAGAGAGTAAAAATGAACAAGAGAGAGAGAAATCGGAAAACCTGGCTAAAGAACTATCCCATGGA
 CTCTGCTTCCCAGATAACTGTGAAAGGACTCAGTAATTTGGGGAATACTGTTTTCTCAATGCAGTTATG
 CAGAACTTGTCAAAACGCCAGTCTTAGAGAACTACTAAAAGAAGTGAAGATGTCTGGAACGATTGTAA
 AAATAGAGCCACCTGATCTGGCACTAACAGAACCTTTAGAAGTAAACCTCGAGCCTCCAGGTCTCTTAC
 TTTAGCCATGAGCCAGTTTCTCAGTGAGATGCAAGAGAACAAGGAGGAGTTGTGACACCTAAAGAGCTC
 TTTTCTCAGGTCTGTAAAAAGCAACACGTTTTAAAGGGTACCAGCAACAAGACAGCCAGGAGCTGCTTC
 GCTACCTACTGGATGGGATGAGAGCGGAAGAACAACCAAGAGTGAGTAAAGGAATTTTAAAGCATTGG
 TAATCTACTGAAAAATTGGATGAAGAAGTAAAAATAAAGTTAAAGATTATGAAAAGAAAAAGGCAATC
 CCGAGTTTTGTGGACCGCATCTTTGGTGGCGAGCTGACTAGTACGATCATGTGTGATGAATGCAGGACT
 TCTCCTTAGTGCATGAATCGTTCCTTGTCTTTCCAGTTTTAGATGATCAGAGTGGTAAGAAAAAG
 TATAAATGATAAAAAATGTGAAAAATGACAATGGAGGAAGAAGATAAAGACAGTGAGGAAGAGAAAGATGAC
 AGCTACATGAAATCAAGGAGCGATCTTCCGTGAGGACAAGCAAGCACCTACAGAAAAAGCCAAAGAAGC
 AGGCCAAAAAGCAGGCCAAGAACCAACGAAGGCAACAAAAAATCAAGAAAGATTTCTCACTTCAATGA
 GCTCTGCGCCACTGACTACACGGAAGACAATGAACGTGAAGCTGACACAGCACTTGGGGAGAAGTGAA
 GTGGATACCGACTCCACCCATGGTTCTCAAGAGGAGGCCACACAGATAGAGCTGTCTGTTAACCAGAAGG
 ATTTGGATGGCCAAGAGAGCATGATAGAAAGGACACCTGATGTGCAGGAAAGCCAGAGGACCTAGGAGT
 GAAAAGTGCTAACACCGAGAGTGTCTGGGGATTGTGACGCTGCTCCTGAATGCCTAGGGATTTCAAT
 GGTGCCTTCTGGAAGAAAGGACCAGTGGAGAAGTACATTATCAATGGTTTAAAAACCTTAATTTGA
 ATGCTGCTGTTGATCCTGATGAAATAAATATAGAGATTCCGAATGACAGTATTCTGCACCCAAGGTATA
 TGAGGTACATGAACGAGGACCCAGAACTGCTTTCTGTACCCTCGCGAACCCGAGAAGCGTTTAGTACTGAT
 GAGTGTCCATTCAACATTGCTTATATCAGTTCACCCGGAATGAGAACTTCAAGATGCCAATAAAGTGC
 TTTGTGAAGTGTGTTCAAGACGGCAGTGTAAATGGACCAAGGCAAAATATAAAAGGTGACAGGAGACATG
 TTACACCAATGCCAAGAAGCAGATGCTGGTCTCCCTCGCGCTCCTGTCTCACTTGCATTTAAAGCGA
 TTCCAGCAGGCTGGTTTTAACCTGCGCAAAGTTAACAAACACATAAAGTTTCCAGAAATCTTAGATTTGG
 CTCCTTTTTGTACCCTTAAATGTAAGAATGTTGCTGAAGAAAGTACACGAGTGTGTATTCTTATATGG
 AGTTGTTGAACACAGTGGTACTATGAGGTCAGGGCATTACACTGCCTATGCGAAGGAGAGAACTGCAAGC
 TGTCACCTCTCCAATCTTGTCTTACCGGTGACATCCACAAGATTGTGAAATGGAATCAACCAAGGGC
 AGTGGTTTCACATCAGCGATACACATGTGCAAGCTGTGCCTATAACTAAAGTACTGAACTACAAGCGTA
 TCTCCTATTTTATGAGAGAATACTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_024258
Insert Size: 2478 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:	<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_024258.2 , NP_077220.2
RefSeq Size:	2926 bp
RefSeq ORF:	2478 bp
Locus ID:	74112
UniProt ID:	Q99LG0
Cytogenetics:	16 C3.3
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]