

Product datasheet for **MR208939**

Usp21 (NM_013919) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp21 (NM_013919) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp21
Synonyms:	ESTM28; Usp16; Usp23; W53272
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208939 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCAGGCTTCTGAGCACCGCTGGGCCGGACTCGAGAGCCACCTGTCAATGTACAGCCCCGAGTGG
 GAGCCAAGATACCATTTCTCCCGGGCAGCAGCAAGGAGCGCCGAAACCCAGTTCCTGGGCCAAACTC
 CATGTTACGACCTTTGCCTCCCAGGCCAGTCCCCAGATGAAAGGCTCAAGAACTGGAGCTGGGTCGG
 GGTGGACCTCAGGCTCTCGTCCTAGAGGTCCCCTTCGAGCAGATCATGGGGTCCCCTGCCTGGCTCAC
 CGCCCCAGCTGTGGCTCGCTCTCCCATCCCGGACCACTTAGCCCGTTCCAAGTCTGTGAGCAGTGG
 GGACTTGCCTCAATGGGATTGCCTTGGGAGGGCACCCTGGCGCTGGCGAGCTAGGGGCTGCACTGAGC
 CGCTTGGCACTCCGGCTGAGCCACCCACTTTGAGACGTAGTACTTCTCTCCGGCGTCTTGGGGCTTCC
 CTGGCCCCCTACCTGCTCAGCATAACGACAGAGCCCCCTACTTCCCATGGCTCCTTCCACATGATATC
 TGCCCGGCCTTCTGAGCCTTTCTACTCTGATGACAAGATGGCTCACCACACACTGCTTCTGGGTTCTGGT
 CATGTTGGCCTCCGAAATCTAGGAAATACATGTTCTCTGAATGCCGTGCTACAGTGTGAGCAGCAAA
 GGCTTCTCGAGACTTCTGTCTGCGAAGGGACTTCCGGCAAGAGGTGCCCGGAGGAGGCCGAGCCAGGA
 ACTCACAGAAGCCTTTCAGATGTGATTGGTGCCTCTGGCACCTGACTCCTGTGAAGCTGTGAATCCC
 ACCCGATTCCGGGCTGTCTTCCAGAAATACGTCCTTCTTCTCTGGATACAGCCAGCAGGATGCCAAAG
 AGTTCCTGAAGCTCCTCATGGAGCGGTTGCACCTTGAGATCAACCGACGAGGGCGCCGGGACCCGCAAT
 CTTGGCCAGCGGTCCAGTTCCTCTCCACTCGCCGAGGAGGAGGGGCTCGCATGAAGAACCTGAGTTG
 AGTGATGACGACCGCAACTTAATGTGGAAGCGCTACCTGGAGCGAGAAGACAGCAAGATTGTGGACC
 GTTTTGTGGGCCAGTTGAAAAGTTGCCTCAAGTGCCAGGCTGTGGGTATCGCTCCACGACCTTCGAGT
 TTTTTGTGACCTGTCCCTGCCCATCCCCAAGAAAGGATTTGCTGGGGGCAAAGTGTCTTTGCGGGATTGC
 TTCAGCCTTTTACCAAGGAGGAAGAGCTAGAGTCGGAGAATGCCCCAGTGTGTGACCGATGTGCGCAGA
 AAACCCGAAGTACAAAAAGTTGACAGTACAAAGATTCCCCGAATCCTCGTGTCCATCTGAACCGATT
 TTCCACTCCCGAGGCTCCATCAAGAAAAGTTCAGTAGGTGTAGACTTCCCACTGCAGAGACTAAGCCTA
 GGGGACTTTGCCAGCGACAAAGCGGGAAGCCCTGTCTACCAGCTGTATGCCCTTTGCAACCACTCGGTA
 GTGTCCACTATGGCCACTACACAGCCCTGTGCCGGTGCCAGACTGGTGGCATGTCTACAATGACTCCCG
 CGTTTCCCCTGTGAGTAAAATCAGGTGGCATCCAGTGGGGCTACGTGCTGTTCTACCAATTGATCGAG
 GAACCACTTCGGTGCCTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208939 protein sequence
 Red=Cloning site Green=Tags(s)

MPQASEHRLGRTREPPVNVQPRVGAKIPFPPRARSKERRNPVPGPNSMLRPLPPRPGPPDERLKKLELGR
 GRTSGSRPRGPLRADHGVLPGSPPPAVALPLPSRTNLARSKSVSSGDLRPMGIALGGHRGAGELGAALS
 RLALRPEPPTLRRSTSLRRLGGFPGPTLLSIRTEPPTSHGSFHMI SARPSEPFYSDDKMAHHTLLLGSG
 HVGLRNLGNTCFLNAVLQCLSTRPLRDFCLRRDFRQEVPGGGRAQELTEAFADVIGALWHPDSCEAVNP
 TRFRAVFQKYVPSFSGYSQDAQEFLLKLLMERLHLEINRRGRRAPPILASGPVPSPPRRGGGALHEEPEL
 SDDDRANLMWKRYLEREDSKIIVLDFVGLKSKLKCQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSRLRDC
 FSLFTKEEELSEENAPVCDRCRQKTRSTKLLTVQRFPRIILVHLNRFSTSRGSIKKSSVGVDPLQRLSL
 GDFASDKAGSPVYQLYALCNHSGSVHYGHYALCRCQTGWHVYNDRSVSPVSENQVASSEGYVLFYQLMQ
 EPLRCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_013919

ORF Size: 1701 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_013919.3](#)

RefSeq Size: 2200 bp

RefSeq ORF: 1701 bp

Locus ID: 30941

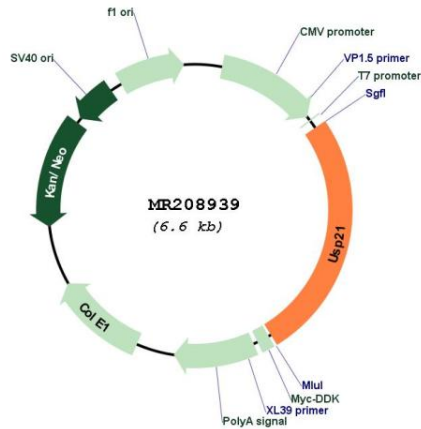
UniProt ID: [Q9QZL6](#)

Cytogenetics: 179.3 cM

MW: 62.7 kDa

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208939