

Product datasheet for MR226452

Usp36 (NM_001033528) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp36 (NM_001033528) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp36
Synonyms:	2700002L06Rik; mKIAA1453
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226452 representing NM_001033528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTATAGTCGATAAGCTGAAGGAGGCTCTCAAGCCTGGCCGCAAGGACTCGGCCGAGGATGGGGACC
TGGGCAGGCTGCTGCCAGCCTCTGCCAAGAAGGTGCTTCTGCAGAGGATTGAGTTTGAGCCGGCCAGCAA
GAGCTTCTCTACCAGCTGGAGTCTTGAAGAGCAAATACGTACTGTTGAGCGCCAGGGCTGAGGGAGCC
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TTTCCGAGTTGGCGCAGGGCTGCACAACCTGGGTAAACACCTGCTTCTCAACTCCACCATCCAGTGCCTG
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CCTCAAGCGCTTCGCCAACTTTAGTGGGGGAAGATCACCAAGGATGTTGGCTATCCAGAGTTTCTGAAAC
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AATGGCTCCCTTCTGGCCTGAAGTTACAGAACGGATGTGCTCCTGCCAAGACACCTGCCGGTCCCGT
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Protein Sequence:

>MR226452 representing NM_001033528
 Red=Cloning site Green=Tags(s)

MPIVDKLEALPKGRKDSAEDGDLGRLLAASAKVLLQRIEFEPASKSFSYQLESLSKYVLLSARAEGA
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 TYTPPLANYLLSKEHARSCHQGGFCMLCLMQNHMVQAFANSGNAIKPVSFIRDLLKIIARHFRFGNQEDAH
 EFLRYTIDAMQKACLNQYAKLDRQTQATTLVHQIFGGYLRSRVKCSVCKSVSDTYDPYLDIALEIRQAAN
 IVRALELFVKSDVLSGENAYMCAKCKKVPASKRFTIHRTSNVLTLSLKRFAFSGGKITKDVGYPEFLN
 IRPYMSQSSGDPVYGLYAVLVHSGYSCHAGHYCYVVKASNGQWYQMNDLSLVHSSNVKVVLLNQAYVLFY
 LRIPGSKKSPEGPVSRVATLPSRPKVVPESHKSPGNGVVPSPMLAKRQDSVMMRKLPAPEEVGVPVSR
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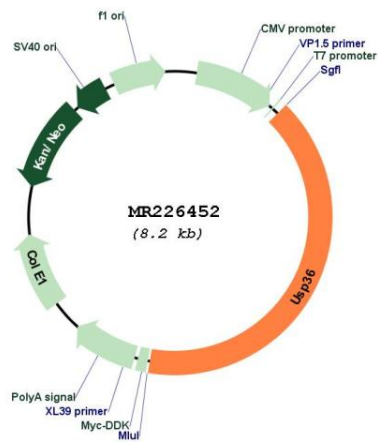
UniProt ID: [B1AQJ2](#)

Cytogenetics: 11 E2

MW: 120.4 kDa

Gene Summary: Deubiquitinase essential for the regulation of nucleolar structure and function. Required for cell and organism viability. Plays an important role in ribosomal RNA processing and protein synthesis, which is mediated, at least in part, through deubiquitination of DHX33, NPM1 and FBL, regulating their protein stability (PubMed:29273634). Function as a transcriptional repressor by deubiquitinating histone H2B at the promoters of genes critical for cellular differentiation, such as CDKN1A, thereby preventing histone H3 'Lys-4' trimethylation (H3K4). Specifically deubiquitinates MYC in the nucleolus, leading to prevent MYC degradation by the proteasome: acts by specifically interacting with isoform 3 of FBXW7 (FBW7gamma) in the nucleolus and counteracting ubiquitination of MYC by the SCF(FBW7) complex. In contrast, it does not interact with isoform 1 of FBXW7 (FBW7alpha) in the nucleoplasm. Interacts to and regulates the actions of E3 ubiquitin-protein ligase NEDD4L over substrates such as NTRK1, KCNQ2 and KCNQ3, affecting their expression and functions. Deubiquitinates SOD2, regulates SOD2 protein stability. Deubiquitinase activity is required to control selective autophagy activation by ubiquitinated proteins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226452