

Product datasheet for **MR226490**

Usp14 (NM_021522) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp14 (NM_021522) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp14
Synonyms:	2610005K12Rik; 2610037B11Rik; AW107924; ax; C78769; nmf375
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226490 representing NM_021522
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACTCTACTCTGTTACAGTAAAATGGGAAAGGAGAAGTTGAAGGTGTAGAATTGAATACTGATG
 AACCTCCAATGGTGTCAAAGCCAGCTTTTTGCATTGACTGGAGTCCAGCCAGCCAGACAAAAAGTTAT
 GGTGAAAGGAGGAACCTGAAGGATGATGACTGGGAAACATCAAAATGAAAAATGGAATGACTGTACTA
 ATGATGGGGTCAAGCAGATGCTCTCCAGAAGAACCCTCTGCTAAAAGTCTTCGTAGAAGACATGACAG
 AAGAACAGTTAGCAACCCTATGGAATTGCCATGTGGATTGACAAACCTTGGTAACACTTGTACATGAA
 TGCTACAGTTCAGTGTATTCGTTCTGTGCCTGAACTCAAAGATGCCCTTAAAAGGTATGCAGGTGCGTTG
 AGAGCTTCAGGAGAAATGGCTTCAGCACAGTATATTACTGCAGCTCTTAGAGATTTGTTTGATTCCATGG
 ATAAAACCTCTTCTAGTATCCACCTATTATTCTGCTGCAGTTTCTGCACATGGCCTTCCACAGTTTGC
 AGAGAAGGGCGAACAAGGGCAGTATCTTACGACGATGCTAACGAATGCTGGATACAAATGATGAGAGTC
 CTGCAACAGAAACTAGAAGCCATAGAGGATGATTCTGGTAGAGAGACGGATTCTTCATCTGCACCAGCGG
 TGACACCTTCTAAAAAGAAAAGCTTAATTGATCAATATTTGGTGTGAGTTGAAACTACCATGAAATG
 TACAGAATCTGAAGAAGAAGAGGTACCAAAGGAAAGGAAAATCAACTTCAACTTAGTTGTTTCATTAAC
 CAGGAAGTGAAGTATCTTTTACAGGGCTGAAATTGCGACTTCAGGAAGAAATTAATAACAGTCTCCAA
 CACTGCAGAGAAATGCTTTGTACATCAAATCTTCTAAGATCAGCCGGCTACCTGCTTACTTAACATTTCA
 AATGGTTTCGATTTTTTATAAGAGAAAAGAAATCTGTGAACGCCAAAGTCTTAAGGATGTTAAGTTTCT
 CTTATGTTGGATGTGTGAACCTCTGCACACCAGAACTCAAGAGAAAATGGTCTCTTTTCGGTCAAAAT
 TCAAGGATCTAGAAGATAAAAAAGTGAATCAGCAACCAAATGCAAATGACAAGAATAGCTCTCCGAAAGA
 GATTAAGTATGAACCCTTTTCAATTTGCTGACGATATTGGCTCCAATAATTGTGGCTACTATGACTTACAA
 GCAGTGTAACTACCAGGGAAGATCTAGTTCTCAGGTCATTATGTATCATGGGTGAGAAGAAAACAAG
 ATGAATGGATCAAATTTGATGATGATAAGGTGAGCATTGTAACCCAGAGATATTCTGCGGCTGTCTGG
 TGGTGGAGACTGGCACATTGCTTATGTTCTACTTTATGGGCTCGAAGAGTTGAAATAATGGAAGAAGAA
 AGTGAACAG

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226490 representing NM_021522
 Red=Cloning site Green=Tags(s)

MPLYSVTVKWKEKFEVVELNTEPPMVFKAQLFAL TGVQPARQKVMVKGGTLKDDDWGNIKMKNGMTVL
 MMGSADALPEEPSAKTVFVEDMTEEQLATAMELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGAL
 RASGEMASAYITAALRDLFDSMDKSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDANECWIQMMRV
 LQQKLEAIEDDSGRETDSSAPAVTPSKKSLIDQYFVGEFETTMKCTESEEEVTKGKENQLQLSCFIN
 QEVKYLFTGLKLRLQEEITKQSPTLQRNALYIKSSKISRLPAYLTIQMVRFYKEKESVNAKVLKDVKFP
 LMLDVYELCTPELQEKMVSFRSKFKDLEDKKNVQPNANDKNSPPEIKYEPFSFADDIGSNCCGYDLO
 AVLTHQGRSSSSGHVSWVRRKQDEWIKFDDDKVSIIVTPEDILRLSGGGDWHIAYVLLYGPRRVEIMEEE
 SEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021522

ORF Size: 1479 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_021522.4](#), [NP_067497.2](#)

RefSeq Size: 4185 bp

RefSeq ORF: 1482 bp

Locus ID: 59025

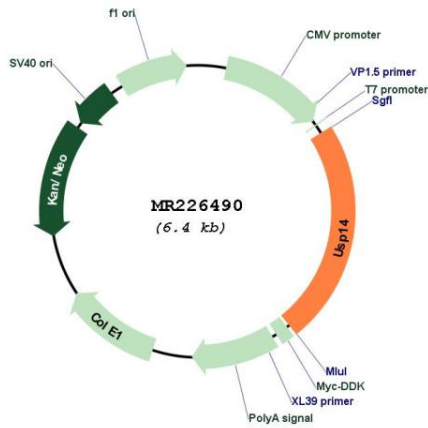
UniProt ID: [Q9JMA1](#)

Cytogenetics: 18 4.91 cM

MW: 56.5 kDa

Gene Summary: Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. Ensures the regeneration of ubiquitin at the proteasome. Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell. Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. Serves also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1. Plays a role in the innate immune defense against viruses by stabilizing the viral DNA sensor CGAS and thus inhibiting its autophagic degradation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226490