

Product datasheet for **MR210123**

Usp11 (NM_145628) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp11 (NM_145628) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp11
Synonyms:	6230415D12Rik; mKIAA4085
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210123 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGACTCGAAACAAGATGGCACTTGGCCAGTGCTCAGCTGTGTGGCATGAACAACATACCGGACG
 AGGATGAGGACTTCCAGGGCAACCGGGCATCTGTGGCCTTACCAATCTGGGCAACACATGCTTCATGAA
 CTCGGCCCTACAGTGCCTGAGCAATGTGCCACAGCTGACAGAGTACTTTCTCAACAAATCGTACCTAGAG
 GAGCTCAACTTCCGGAACCCCTCTAGGCATGAAGGGTGAGCTTGCTGAGGCCTATGCAGATCTGGTAAAGC
 AGACTTGGTCTGGCTACCACCGTCCATTGTGCCAAATGTGTTCAAGAACAAGGTTGGCCATTTGCATC
 CCAGTTTCTGGGCTACCAGCAGCATGACTCACAGGAAGTACTGTCATTCTCCTGGATGGGCTACATGAG
 GATCTCAATCGGGTCAAAAAGAAAGAATATGTTGAGCTATGCAATGGTGTGGCGGCCCTGATCTGGAAG
 TGGCTCAGGAAGCTGGCAGAACCATAAACGACGAAATGATTCTGTGATCGTGGACACTTCCATGGCCT
 CTTCAAGTCCACCCTGGTGTGCCCTGATTGTGGCAATGTTTCTGTGACCTTTGACCCCTTCTGCTACCTC
 AGTGTCCCACTGCCTGTCTGCTCCAGGAGGGTCTTGAAGTCTTCTTTGTCCCACTGGATCCCCGCCGCA
 AGCCAGAACAGCACCGGGTGTAGTCCCAAGAAGGGCAATATCTCAGATCTGTGTGTGGCTCTGTCCAC
 GCATACAAGTGTGCACCAGACAAGATGATAGTAGCTGATGTCTTCAGTCACCGATTCTATAAGCTTTAC
 CAGCTGGAGGATCCTCTGAGTGGCATCTTGGATCGTATGATATCTTTGTATATGAGGTGACTGGTCGGA
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 AGACTACAACAACCTCTACTATGGTCTGATACTTTTGGGCACCCCTCTCCTGGTGTGAGTCCCCGGGAC
 CGTTCTCCTGGGAGGGCCTATAAACATCTTGATGTACCGACTTTCACGATATGTGACCAAAACCCACT
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 GTCCAGTGCAGCTGAAGGAGTGCATCAAACCTTACCAGTGTGGAAACCCCTGGAGAAGGAGAACCCCTG
 GTACTGCTCCTCCTGCAAGCAGCACCAGCTGGCCACCAAGAACTGGACCTCTGGATGCTACCCGAAGTT
 CTCATTATCCACCTGAAGCGTTTTTCATTTTCCAAAATTTCCCGGAGAGCTGGACACCCTGGTGCAGT
 TTCCTATCCGGGACCTGGATTTCTGAGTTTGTGATCAAACCAAGAATGAGTCTTCTCCAGACCTCTA
 CAAATATGATCTCATCGAGTTTCCAACCATATGGTGGCATGCGTGATGGACACTATACAACATTTGCC
 TGCAACAAGGACAGTGGCCAGTGGCACTACCTTGATGACAATAGTGTCTCACCTGTGAATGAGAATCAGA
 TTGAGTCCAAGGCAGCCTATGCTTGTCTATCAGCGCCAAGATGTGGGTCGACGCCAGTCCCAGACTTC
 TTCATCTGACACTCCTGCCTCTCCTGTCTCCAGTTCTACACCAACTCTGACATCATGGATATCAAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210123 protein sequence
Red=Cloning site Green=Tags(s)

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METRNDGTWPSAQLCGMNNIPDEDEDQGGQPGICGLTNLGNTCFMNSALQCLSNVPQLTEYFLNNRYLE
ELNFRNPLGMKGELAEAYADLVKQWTSWGYHRSIVPNVFNKVKVGHFASQFLGYQQHDSQELLSFLLDGLHE
DLNRVKKKEYVELCNGAGRPDLEVAQEAQWQNHKRRNDSVIVDTFHGLFKSTLVCPDCGNVSVTFDPFCYL
SVPLPVCSSRRVLEVFVPMDDPRRKEQHRVVPVKKGNISDLVALSTHTSVAPDKMIVADVFSHRFYKLY
QLEDPLSGILDRDDIFVYEVTGRIEPEVGSRDDIVVPVYLRERTPSRDYNNSSYGLILFGHPLLVSVPRD
RFSWEGLYNILMYRLSRVYTKPTSDEDDGDEKVEDEDEDVEDSSSEEEKEEMSAPTVDNGTREAEQEQ
AGTSSGVTERTCSLLDNSLRASQWPPRRRRKQLFTLQTVNSNGTSDRTTSPEEMQTQPYIAMDWEPDMKR
RYYDEVEAEQYVYKHCDCVGYMLKKSPVQLKECIKLFITVETLEKENPWYCSSCKQHQLATKKLDLWMLPEV
LIIHLKRFSSKISREKLDLTVQFPIRDLDFSEFVIKPKNESSPDLYKYDLIAVSNHYGGMRDGHYTTFA
CNKDSGQWHYLLDINSVSPVNNENQIESKAAYVLFYQRQDVGRRQSQTSSSDTPASPVSSSTPNSDIMDIN
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_145628

ORF Size: 2100 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_145628.1](#)

RefSeq Size: 3464 bp

RefSeq ORF: 2766 bp

Locus ID: 236733

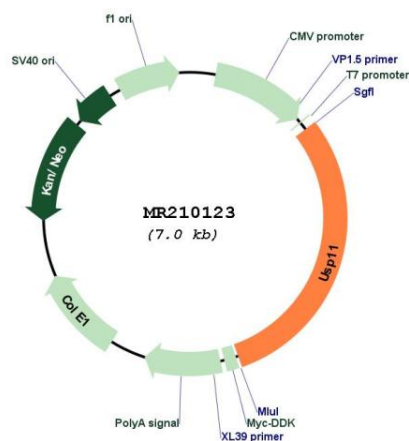
UniProt ID: [Q99K46](#)

Cytogenetics: X A1.3

MW: 80.1 kDa

Gene Summary: Protease that can remove conjugated ubiquitin from target proteins and polyubiquitin chains. Inhibits the degradation of target proteins by the proteasome. Cleaves preferentially 'Lys-6' and 'Lys-63'-linked ubiquitin chains. Has lower activity with 'Lys-11' and 'Lys-33'-linked ubiquitin chains, and extremely low activity with 'Lys-27', 'Lys-29' and 'Lys-48'-linked ubiquitin chains (in vitro). Plays a role in the regulation of pathways leading to NF-kappa-B activation. Plays a role in the regulation of DNA repair after double-stranded DNA breaks. Acts as a chromatin regulator via its association with the Polycomb group (PcG) multiprotein PRC1-like complex; may act by deubiquitinating components of the PRC1-like complex. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210123