

Product datasheet for **MR210010**

Mum1 (NM_023431) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mum1 (NM_023431) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mum1
Synonyms:	2610019J09; 9430059D04Rik; UBE-1C2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210010 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGATGCCAAGTATGTCCTCTGCCGATGGGGGAAGCGACTGTGGCCTGCGAAGGTTTTGGCCAGAA
 CCGAGACTTCAGCAAAAAACAAGAAAAAGAAGGAATTCCTCCTAGATGTTAGACTACTCTCGCTGAAGGA
 AAAGATCCAGGTTAAGAGCTCAGCCGTGGAGGCCCTGCAGAAGTCGCACATTGAGAACATTGCTGCCTTC
 CTGGCCTCTCAGAATGAAGTCCCAGCTACTCCCCTGGAGGAGCTGACTTACCGACGCTCCCTGCGAGTGG
 CCCTGGATGTCTTGAATGAGAGGACCAGTTTGTGCTGAAAGTCATCCAATAGAAGATGGGATTACACT
 GTCTCAGAAGGAGAAAACAGATGCAGATGTGGCCTCGCAGGTCTCCAGTGTCTTCTCCATCTCTCCTC
 GGTGAAGATGGTCAAGCCGTGGTAGCCAGTGCATCCAAGAGGAGGTGGAGTACAGTCAAAAAGCC
 TGTTGCCGTGCTGCTGATTAGAAGATCATCTCAGGTGCCAAGTGGGCCCAAGACAGGCCTCTCAGAGAG
 TGGAGCTGGAGACAAGTCTCAGGATGATTCTGGGTTACAGCTGGACCATGGGCAGGAGAGACAACCAAA
 AAGAGGCAGAGGAATTTGGGAGAGAAACCTACCCGGCGCCGAAGATCAGAGTCTGGCCTTTCCAAGGGAG
 AAAGTGTCTTAAAGAGCCAGGGACAGGCATCCAGCTGTGTGGCCCTGGCTTACCTAGGCCGCCCTCCCA
 AACCAGGGACGAGGAGCCCTGTGCCGGGTCAAAGGCTGTGACTGGGTCAAGTCATCAGGCAACATCAGG
 CCACTCTCGGCCTCTGAGAGAAGCAGAGGATGCCCCACAAGAGACCACGCTTGGATGGAGGCCAGAACC
 CACCTACCAGGCAGCTGGGGACTAGAAGTGTGGGGCAGCGCCCTGCCCTAGGAGCTGTTCTGGGGAGGT
 CACGATGCTGTGAGTGTGGAGCGGTGACAAACCAGAGGAAGATCCTGTGTCTCAGAAGAATCCACA
 GGGTTCAAGTCCACACTCCCTGCTGGAGGAGGAGGAGGAGGAAGAGGAGGAACCACTCGGATCTTCT
 TGTATCACGAACCACGGTCATTTGAAGTAGGAATGCTGGTCTGGCTTAAATACCAAAAATACCCATTCTG
 GCCAGCTGTGGTCAAGAGTGTCCGGCGAAGAGACAAGAAGGCCAGTGTGCTCTTATTGAGGGCAACATG
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 CCTGTGCGCAAGTCTATCCAACAGGACGCTCTGGGGACCAGGTTTCTCAGCTGGGCAAGGGGGACCCTG
 AGGAGCCTGTAGGGGACAGCCAGCTGGGACAGTGGCGCCATGCAGGAAGGTGCTGCCTGACCGCTCCAG
 GGCTGCACGGGATAGAGCCAACCAGAAGCTGGTGGAGTACATCGTGAAGGCCAAGGGTGCAGAGAGCCAC
 CTGCGGGCTATCTTGACAGCCGAAGCCCTCACGCTGGCTGAAGACGTTCTGAGCTCCAGTCACTGCG
 TGACTTGCATGGAGACATACCTGGAGGATGAGGGCAGCTGGATGAGGTGGTGGAGTACCTGCAGGGCGT
 CTGCAGAGACATGGACGGCCAGGTGCCTGAGCGCGGCAGTGGAGACCGCATTGCTTTCATCTTGGATGTG
 CTGCTGCCCGAGGCAATCATCTGTGCCATTTCCGCGGTGGAGGCGGTGGATTACAAGACAGCCGAGCAGA
 AGTACATTCGTGGCCCCACACTTAGCTACCGGGAAAAGGAAATCTTTGACAATGAACTCCTGGAGGAGAG
 GAACCGACGCCGTCGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210010 protein sequence
Red=Cloning site Green=Tags(s)

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MTDAKYVLCRWGKRLWPAKVLARTETSAKNKKKKEFFLDVQILSLKEKIQVKS SAVEALQKSHIENIAAF
LASQNEVPATPLEELTYRRSLRVALDVLNERTSLSPESHPIEDGITLSQKEKTDADVASQVSSAPSPSLL
GEDGQAVVAQCASKRRSEYSSKLLPSSALEDLRCQVGPKTGLSESGAGDKSQDDSGQLDHDGQESTTK
KRQRNLGEKPTRRRRSEGLSKGESVLKSQGQASSCVLASSPRPPSQTRDEEPCAGVKGCDWVKSSGNIR
PLSASERSRGCPTRPRLDGGQNPTRQLGTRTVGAAPCRSCSGEVMTLCSAGAGDKPEEDPVSSEEST
GFKSTHSLLEEEEEEEEEPPRILLYHEPRSFVGMVLVWLKYQKYPFWPVPVKS VRRRDKKASVLFIEGMM
NPKGRGITVSLRRLKHFDCKEKHALLDRAKEDFAQAIGWCVSLITDYRVRLGCGSFAGSFLEYAADISY
PVRKSIQQDVLGTRFPQLGKGDPEEPVGDSQLGQWRPCRKVL PDRSRAARDRANQKLVEYIVKAKGAESH
LRAILHSRKPSRWLKTFLSSSQVTCMETYLEDEAQLDEVVEYLQGVCRDMDGQVPERGSGDRIRFILDV
LLPEAIICAISAVEAVDYKTAEQKYIRGPTLSYREKEIFDNELLEERNRRRR
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_023431

ORF Size: 2049 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_023431.5](#), [NP_075920.4](#)

RefSeq Size: 3717 bp

RefSeq ORF: 2049 bp

Locus ID: 68114

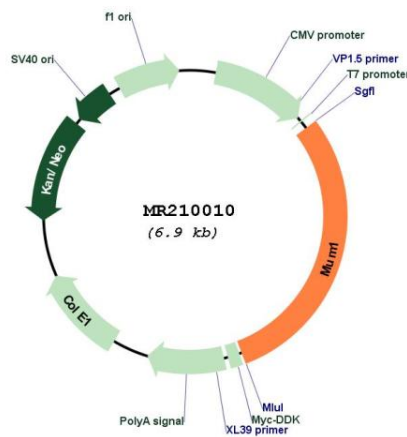
UniProt ID: [Q6DID5](#)

Cytogenetics: 10 C1

MW: 76.1 kDa

Gene Summary: Involved in the DNA damage response pathway by contributing to the maintenance of chromatin architecture. Recruited to the vicinity of DNA breaks by TP53BP1 and plays an accessory role to facilitate damage-induced chromatin changes and promoting chromatin relaxation. Required for efficient DNA repair and cell survival following DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210010