

Product datasheet for **RR210683**

Mum1 (NM_001108736) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mum1 (NM_001108736) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mum1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR210683 representing NM_001108736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGATGCCAAGTATGTCCTCTGCCGATGGGAGAAGCGACTGTGGCCTGCAAAGTTTTGGCCAGAA
 CTGAGACTTCAGCAAAAAACAAGAGAAAAAAGGAATTCCTTCTAGATGTTCAAATACTCTCACTAAAGGA
 AAAGATCCAGGTTAAGAGCTCAGCCGTGGAGGCGACTGCAGAAGTACACATTGAGAACATTGCCGCCTTC
 TTGGCCTCTCAGAATGAAGTCCCAGCTACTCTCTGGAGGAGCTGACTTACCGACGGTCCCTGCGAGTGG
 CCCTGGATGTCTTGAACGAGAGGACCAGTTTGTAGTCTGAAAGTCCAGTTCGAAAAATGGGAGCACACC
 ATCTCAGAAGGGCAAGCCAGATGCAGATATGGCCTCGCAGGTCTCTAGTGTCTCTCCATCTTTTCTC
 AGTGAAGATGATCAGGCTGTGGCAGCCAGTGTGCATCCAAGAGGAGGTGGGAGTGCAGTCCAAAAAGCC
 TGTCGCCGTTGTCTGCCTCGGAAGAGGATCTCAGGTGCAAAGTGGACCCCAAGACAGGCCTCTCAGAGAG
 TGGAGCCCTGGGACTGAAGTGCCTGCCCCACTGGGGATGAGTCTCAGAATGGCTCTGGGTACAGCTG
 GACCATGGACAGGAGAGCACAAACAAAAAGAGACAGAGGAATTCGGGAGAGAAACCTGCCCGCGCGGAA
 AAGCAGAGTCTGGCCTTTCCAAGGGAGACAGTGTGCGCAGAGAGCGGAGGACAGGCAAGCAGCTGTGTGGC
 CCTGGCTTCAACCAGGCTGCCCTCCAAACCTGGGAGGGGGATCCATGTGCTGGAGTCAAGGCTGTGAC
 CCAGTTGAGTCAATCCGGCAACATCAGGCCGCTTCTGGACTCTGAGAGAAGCAAAGGACGCCTCACAAAGA
 GGCCACGCTTGGACGGAGGCCGGAACCCACTGCCAGACATCTAGGAACCAGAACTGTGGGGCAGTGCC
 CTCCTAGTGGAGTGTCTGGGGAGGTCACGACGCTGCGCAGGGCTGGAGACAGTGCAGACCAGAGGAA
 GATCCTATGTCTTCAAGAATCTACAGGGTCAAGTCCGTCCTCCCTGCTGGAGGAGGAGGAGGAGG
 AGGAGGAGGAGGAGGAAGAGGAGGAGGAACCCCGGATCCTTCTGTATCACGAACCAGATCATTGGA
 AGTAGGAATGCTGGTCTGGCTTAAATACCAAAAAATACCCATTCTGGCCAGCCGTGGTCAAGAGTGTCCGG
 CGGAGGGACAAGAAGGCCAGTGTGCTTTCATTGAGGGCAACATGAATCCCAAGGGCCGAGGAATCACCG
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 CTTTGGCCAGGCTATTGGCTGGTGTGCTCGCTTACTGACTACCGCGTGGGCTGGGCTGCGGCTCC
 TTCGCCGGTCTTCTTGAATATTACGCTGCTGATATCAGCTATCCTGTGCGCAAGTCTATCCAACAGG
 ACGTCTGGGGACCAGGTTTCTCAGCTGGGCAAGGGGGACCCTGAGGAGCCTATGGGGACAGCCGGCT
 GGGACAGTGGCGCCATGCAGGAAGGTGCTGCCTGACCCTCCAGGGCTGCCCGGATAAAGCCAACCAG
 AAGCTGGTGGAGTACATCGTGAAGGCCAAGGGTGCAGAGAGCCACCTGCGGGCTATCCTGCACAGCCGA
 AGCCCTACGCTGGCTGAAGACGTTCTGAGCTCCAATCAGTACGTGACATGCATGGAGAGCTACCTGGA
 GGATGAGGCGCAGCTGGATGAGGTGGTGGAGTACCTGCAGGGCGTCTGCCGAGACATGGATGGCGAGATG
 CCTGCGCGCGGACGCGGCGACCGCATCCGTTTCTCCTGGATGTGCTGTGCTGAGGCGATCATCTGCG
 CCATCTCGGCAGTGGAGGCGAGTGGACTACAAGACAGCCGAGCAGAAGTACCTCCGTGGCCCCACACTCAG
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ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210683 representing NM_001108736
Red=Cloning site Green=Tags(s)

MTDAKYVLCRWEKRLWPAKVLARTETSAKNKRKKEFFLDVQILSLKEKIQVKSSAVEALQKSHIENIAAF
 LASQNEVPATPLEELTYRRSLRVALDVLNERTSLSPESHVVENGSTPSQKGPADAMASQVSSAPSPSFL
 SEDDQAVAAQCASKRRWECSPKLSPLSASEEDLRCKVDPKTGLSESGALGTEVPAPTGDSEQNGSGSQL
 DHGQESTTKKRQRNSGEKPARRGKAESGLSKGDSVAESGGQASSCVALASPRLPSQTWEGDPCAGVEGCD
 PVESSGNIRPLLDSESRKGRLLTKRPRLDGGRNPLPRHLGTRTVGAVPSRRSCSGEVTTLRRAGDSRPEE
 DPMSSEESTGFKSVHSLLEEEEEEEEEEEEEEPRIILLYHEPRSFVGMVLVWLKYQKYPFPVAVKSVR
 RRDKKASVLFIEGNMNPKGRGITYSLRRLKHFDCKEKHALLDRAKEDFAQAIGWCVSLITDYRVRLGCGS
 FAGSFLEYAADISYPVRKSIQQDVLGTRFPQLGKGDPEEPMGDSRLGQWRPCRKVLPRDSRAARDKANQ
 KLVEYIVKAKGAESHLRAILHSRKRPSRWLKTFLSSNQYVTCMETYLEDEAQLDEVVEYLQVQCRMDMGEM
 PARSGDRIRFILDVLLPEAIIICAISAVEAVDYKTAEQKYLRGPTLSYREKEIFDNELLEERNRRRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001108736

ORF Size: 2091 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_001108736.2](#), [NP_001102206.2](#)

RefSeq Size: 2463 bp

RefSeq ORF: 2094 bp

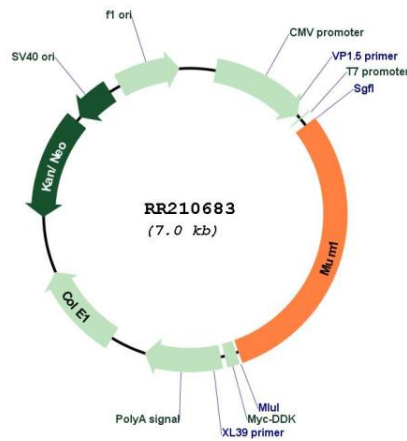
Locus ID: 362838

Cytogenetics: 7q11

MW: 77.9 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 RR210683