

Product datasheet for **RN210683**

Mum1 (NM_001108736) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN210683 representing NM_001108736
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGATGCCAAGTATGTCCTCTGCCGATGGGAGAAGCGACTGTGGCCTGCAAAGTTTTGGCCAGAA
 CTGAGACTTCAGCAAAAAACAAGAGAAAAAGGAATTCCTTCTAGATGTTCAAATACTCTCACTAAAGGA
 AAAGATCCAGGTTAAGAGCTCAGCCGTGGAGGCGACTGCAGAAGTACACATTGAGAACATTGCCGCCTTC
 TTGGCCTCTCAGAATGAAGTCCCAGCTACTCTCTGGAGGAGCTGACTTACCGACGGTCCCTGCGAGTGG
 CCCTGGATGTCTTGAACGAGAGGACCAGTTTGTAGTCTGAAAGTCCAGTTCGAAAATGGGAGCACACC
 ATCTCAGAAGGGCAAGCCAGATGCAGATATGGCCTCGCAGGTCTCTAGTCTCTTCTCCATCTTTTCTC
 AGTGAAGATGATCAGGCTGTGGCAGCCAGTGTGCATCCAAGAGGAGTGGGAGTGCAGTCCAAAAAGCC
 TGTCCCGTTGTCTGCCTCGGAAGAGGATCTCAGGTGCAAAGTGGACCCCAAGACAGGCCTCTCAGAGAG
 TGGAGCCCTGGGACTGAAGTGCCTGCCCCACTGGGGATGAGTCTCAGAATGGCTCTGGGTACAGCTG
 GACCATGGACAGGAGAGACAACCAAAAAGAGACAGAGGAATTCGGGAGAGAAACCTGCCGGCGCGGAA
 AAGCAGAGTCTGGCCTTTCCAAGGGAGACAGTGTGCGCAGAGAGCGGAGGACAGGCAAGCAGCTGTGTGGC
 CCTGGCTTCAACCAGGCTGCCCTCCAAACCTGGGAGGGGGATCCATGTGCTGGAGTCAAGGCTGTGAC
 CCAGTTGAGTCAATCCGGCAACATCAGGCCGCTTCTGGACTCTGAGAGAAGCAAAGGACGCCTCACAAAGA
 GGCCACGCTTGGACGGAGGCCGGAACCCACTGCCAGACATCTAGGAACCAGAACTGTGGGGCAGTGCC
 CTCCCGTAGGAGCTGCTCTGGGGAGTCAAGGCTGCGCAGGGCTGGAGACAGTGCAGACCAGAGGAA
 GATCCTATGTCTTCAAGAAGTCTACAGGGTCAAGTCCGTCCTCCCTGCTGGAGGAGGAGGAGGAGG
 AGG
 AGTAGGAATGCTGGTCTGGCTTAAATACCAAAAAATACCCATTCTGGCCAGCCGTGGTCAAGAGTGTCCGG
 CGGAGGGACAAGAAGGCCAGTGTGCTCTTATTGAGGGCAACATGAATCCCAAGGGCCGAGGAATCACCG
 TGTGCTGCGACGGCTCAAGCACTTTGACTGCAAGGAAAAGCATGCACTACTGGACAGAGCCAAAGAGGA
 CTTTGGCCAGGCTATTGGCTGGTGTGCTCGCTTACTGACTACCGCGTGGGCTGGGCTGCGGCTCC
 TTCGCCGGTCTTCTTGAATATTACGCTGCTGATATCAGCTATCCTGTGCGCAAGTCTATCCAACAGG
 ACGTCTGGGGACCAGGTTTCTCAGCTGGCAAGGGGGACCCTGAGGAGCTATGGGGACAGCCGGCT
 GGGACAGTGGCGCCATGCAGGAAGGTGCTGCCTGACCCTCCAGGGCTGCCGGGATAAAGCCAACCG
 AAGCTGGTGGAGTACATCGTGAAGGCCAAGGGTGCAGAGAGCCACCTGCGGGCTATCCTGCACAGCCGA
 AGCCCTCAGCTGGCTGAAGACGTTCTGAGCTCCAATCAGTACGTGACATGCATGGAGAGCTACCTGGA
 GGATGAGGCGCAGCTGGATGAGGTGGTGGAGTACCTGCAGGGCGTCTGCCGAGACATGGATGGCGAGATG
 CCTGCGCGCGGACGCGGCGACCCGATCCGTTTCTCCTGGATGTGCTGCTGCCTGAGGCGATCATCTGCG
 CCATCTCGGCAGTGGAGGAGTGGACTACAAGACAGCCGAGCAGAAGTACCTCCGTGGCCCCACACTCAG
 CTACCGGGAAAAGGAAATCTTTGACAATGAACTCCTGGAGGAGAGGAACCGTCCCGCTCGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001108736
- Insert Size:** 2094 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

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]