

## Product datasheet for **SC127064**

### **MUM1 (BD127600) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MUM1 (BD127600) Human Untagged Clone
Tag:	Tag Free
Symbol:	MUM1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for BD127600, the custom clone sequence may differ by one or more nucleotides

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GAAAAATACCCCTTCTGCCCAGCAGTGGTCAAAGCGTCAGGCAGAGAGATAAGAAAGCAAGTGTGCTAT
ACATCGAAGGACACATGAACCCGAAAAATGAAAGTTTTCACAGTGTCTCTTAAAAGTTTAAAGCACTTTGA
TTGTAAGAGAAAACAGACGCTTCTGAATCAAGCCAGGGAGGACTTCAACCAGGACATCGGCTGGTGTGC
TCCTCATCACCGACTACAGGGTCCGGTTAGGCTGCGGGTCTTTTGGCTGCTTTTCTGGAATATTACG
CGGCTGATATAAGCTATCCTGTCCGAAAAATCCATCCAGCAGGACGTGTTGGGGACCAAGCTTCTCAACT
GAGCAAGGGGAGCCCGAGGAGCCCGTGGTGGGGTGGCCCTGGGGCAGAGGCAGCCCTGCCGAAAAATG
CTCCCGACCGCTCGCGGGCCGCGGGACCGGGCCAACCAGAAGCTGGTGGAGTACATTGTGAAGGCCA
AGGGCGCGGAGAGCCACCTGCGGGCCATCTAAGAGCAGGAAGCCATCTCGCTGGCTGCAGACCTTCT
GAGCTCCAGCCAGTACGTGACCTGTGTGGAGACCTACCTGGAGGATGAGGGGCAGCTGGACCTGGTGGT
AAGTACCTGCAGGGCGTCTACCAGGAGGTGGGGCCAAGGTGCTCCAGCGCACCAACGGCGACCGGATCC
GGTTCATTCTGGACGTGCTTCTGCCGAGGCCATCATCTGTGCGATCTCTGCGGTGGACGAGGTGGACTA
CAAGACGGCTGAGGAGAAGTACATCAAGGGGCCTTCGCTGAGCTACCGGGAAAAAGAAATATTTGACAAC
CAGCTCCTTGAAGAGCGGAACCGGCGCCGTGGTGGGGAGCAGCCGGCTGTGCTGTGACGGGGCCTGG
CGGTGGAAGCGCCTCCAGTGTGCATGAGCGTGTCTGAAGATGGGGGGCTCAGGGGGCACGTTTGCCTTTG
GACCTGTCTGTGCTTCTCCTGCGTGGCAGTCTGATTTCCATACTTCTGGAGAATCCATTTTCGTTAAAC
CTGAAAGCCAGTCTCTTTTCTGGCAGTTTTTTTCAATTTATTTTTGGCATTTTTTTACAAGATACCGTT
CGGAAAGGCTTTTGAAGGACGGGAGCGTATTCAGTGTGCGCCAGTACTCCTGGCTGTGCTGTGGTTTTC
TCCCGACGTGCACATCGATCTCGTATGTGTGCCATCTGATATTAACGGGAGGTTTTAAGAAGCGCTGCG
CGTGATCATGGAGCTTCGGAAGCGGGAATGGTTCTTCCGGTTTTGCTGTTTTGCTGTTTTCCCTTGTG
TGGTTTTCCGCTGCGACAGTTCCAGAATTTGCTCTCCCACTCAGTGTGCTCTGCAGCTGTGAGGAACAG
CCTTCGTTAGAGGCGGGAGCAGAGACGAGCCGCTGCTCTGTGCTGTTTTGCTGTGGCTGCAGGGAGAGG
AGCGGGACACGCACCTTTCCAGGGCCTCTGTGTCCCGCACTGTGTGTGAGTGGACCGCAGCGCGCAGCC
ACATGCCCTGGCTGCCATGGGCCAGACCGCTCCACCTCCCCCGCCGCTGGCCTGTCTGAGTGCATT
TCCCTGCACTGTGTGCTCACTGCACAGCCAGTACCAGCGGTCTCAGTATCGGCGCGGATGGCTATGCTG
GGGTCCCAGGGTGGCCGACGAGTCAAGGTCACCTGTGGGAGCCCTGGGGTGGAGTGACAAACCGCATTGT
CCTGTGCCCGCCATGGCAGAAGCGCAGCCTTTGTATGGAGGCCAACCGCGCTCCCGTCTGGAGAAGCGG
CTTCCGGGGTGTGGCTGCCGGTCCGGCTCTGGTCCACAGCACGGTCCCGGGCTGCAGGTTGTTGAGGGC
TGTGACTCCGTGGGGCTCAGCCAGGCTCCAGCAGGGTCCAGACGTGCTGTTAAGAGCAAAGCCACAGACGA
TGACTTGTCCATTCTCAGTGGATGCTCCAGGCTGTGCCTACACAGCAGTGTGGTGACATGTCCAGGGTT
CCAGGGCCCGGTGGCTGGGAGCTGCTTTCTCCCACTGGCTGGGCTGCATCTGGCCCTGGCTGGAGGCC
TTGCTTTGAGGGGCTGTGACCCTTCTCCCAAGGCCCTCCCAAGCCGACGACAGCCACCGGAGAGGAGAT
CGGAACACGATTGTCTCAGATGCAGGGCGCTGTGCGGGACGAAGCCGCAAGGACTCTCGTATCGGGCCCT
TGGGACTCGGGAGGTGCCAGAGGCGGGCTGCTCTGGACCTCGGTGTTCACTGACCTTTGTTTCACTTG
CCTCTGCTCGACTCCGAGAGCAGGAAACCGGCCGTGGCTGGCAGCTCCGCTCCCATGCCCGCACGCT
GGGGTCTGTCTTGTCTGGAGCAGTGGGGCACACCCCGGAGGAGGGGGGTGAGGGCTGTGCGCCTTGGC
CCCTGCTGGTCGCTGTTTCCGGGACTCGGGGCGGCCAGTACCACCGCCTGAGGCGGGGCTCAGCAGCGT
TGCATGTACGGGCCTCGTACTGCCTCATGAAAAATCCTCCGAGCGCCCTCCATTGTGGGTTCTGAGA
GTAGGACACATTGCCATGGTTTTGTGGGAATCACGCGCCCTGATGGAATTTTCTGCTGTTGTGAAGTA
CTTTTATCCATTTGCTTCTGTGCTGACCTTGCCAAGTTGTTTCGAGGTGGAATTAACACCTCCAGAC
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for BD127600 unedited  
 TTGTATACGACTCATATAGGGCGGCCGCGATTCCGGCACGAGGGCCAGTCTTCCGAAGATC  
 CATGGGGTCTAATTCCATGCGTTCTATCCTGGAGGAAGACGAGGAAGACGAGGAGCCACC  
 AAGAGTCTTTTATACCACGAACCACGTTCTGTTTGAAGTAGGAATGCTAGTCTGGCATAA  
 ACATAAAAAATACCCCTTCTGGCCAGCAGTGGTCAAAGCGTCAGGCAGAGAGATAAGAA  
 AGCAAGTGTGCTATACATCGAAGGACACATGAACCCGAAAATGAAAGGTTTCACAGTGTCT  
 TCTTAAAAGTTTAAAGCACTTTGATTGTAAGAGAAAACAGACGCTTCTGAATCAAGCCAG  
 GGAGGACTTCAACCAGGACATCGGCTGGTGTCTCCCTCATCACCGACTACAGGGTCCG  
 GTTAGGCTGCGGGTCTTTTGCTGGCTCTTCTGGAATATTACGCGGCTGATATAAGCTA  
 TCCTGTCCGAAAATCCATCCAGCAGGACGCTTGGGGACCAAGCTTCTCAACTGAGCAA  
 GGGGAGCCCCGAGGAGCCGTGGTGGGGTGCCCCCTGGGGCAGAGGCAGCCCTGCCGGA  
 NAATGCTCCCGACCGCTCGCGGGCCGCCGGGACCGGGCCACCAGAAGCTGGTGGAGTA  
 CATTGTGAAGCCAAGGGCGGGAGAGCCACCTGCGGGCCATCCTAAAGAGCANGAAGCC  
 ATCTCGTGGCTGCAGACCTTCTGAGCTCAGCCAGTACGTGACCTGTGTGGAGACCTAC  
 CTGGAGGATGAGGGGCGCTGACCCTGTGGNGGAAGTACCTGCAGGGCGTCTACCAGAA  
 GGGGGGGCCAGGGTGTCAACGCACCACGGNGGACGGAATCGTTATTTTTGGGGACGG  
 GCTTTTGGCCGAAGGCTATTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for BD127600 unedited  
 GTTTAATTCACCTCGNACAACCTGGCAAGGTCAGCAGNANAAGCAAATGGATAAAAGTA  
 CTTCAACAACAGCAGAAAAGTTCCATCAGGGGCGCGTGATCCCACAAAACCATGGCAATG  
 TGTCTACTCTCAGGAACCCACAATGGAGGGCGGCTCCGGAGGATTTTCCATGAGGCAGT  
 ACGAGGCCCGTACATGCAACGCTGCTGAGCCCCGCTCAGGCGGTGGTACTGGCCGCCCC  
 GAGTCCCCGAAAACAGCGACCAGCAGGGGGCCAAGGCCGACAGCCCTGACCCCCGCTCT  
 CCGGGGTGTGCCCACTGCTCCAGACAAGACAGACCCAGCGTGCGGGCATGGGAGGCGG  
 AGCTGCCAGGCCACGGCCGGTTTCTGCTCTCGGAGTCGAGCAGAGGCAAGTGAACAA  
 AGGTCAAGTGAACACCGAGGTCCAGAGCAGCCGCGCCTCTGGCACCTCCCGAGTCCCAAG  
 GGCCCCGATACGAGAGTCTTTCGGCTTCGTCCCGCACAGCGCCCTGCATCTGAGACAATC  
 GTGTTCCGATCTCTCTCCGGTGGCTGTCTGCGCTGGGGAGGGCCTGNGGGAAGAGGGT  
 CACAGCCCTCAAAGCAGGCCTCCAGCCAGGGCCAGATGCAGCCAGCCAGCTGGGGAGAA  
 AGCAGTCCCAGGCCACCGGGCCCTGGAACCCTGNACATGTCACCAGCACTGCTGTGTAN  
 GCACAGCCTGGAGCATNCACTGAGAATGGNACAGTCATCGTCTGTGGCTTTGCTCTTACA  
 GCACGCTGACCTGCTGGAGCCTGCTGAGCCCCAGGAGTAACAGCCCTAACAACTGNACC  
 CCCGNACCGGCTGTGACCAAAGCCGACCGNANNCCACCCGAAAGCCGTTTCGACGGAGCC  
 GGTGGGCTCATCAAGCTGGCTTTGCTGGGGCCAGACATGGGTTGCACTACCCAGTTCCAC  
 GACCCTATTGGGCCCTGGACCATAAATCCGCTATTAACCGGAATTGTTGTGCCACCGG  
 GAAACCAACCCCGGGGGGGGGTCCCACCCATTTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

BD127600

**Insert Size:**

2740 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:** [BD127600.1](#)

**RefSeq Size:** 2728 bp

**RefSeq ORF:** 2728 bp

**Locus ID:** 84939

**Cytogenetics:** 19p13.3

**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. [UniProtKB/Swiss-Prot Function]