

## Product datasheet for MC206249

### Sirt7 (BC026403) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sirt7 (BC026403) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Sirt7  
**Synonyms:** MGC31235, MGC37560  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >BC026403

```

AGCCGGTGGCGGTCTGAGCCGCTCGGAGCGCAAAGCTGCTGAGCGGGTCCGGAGGCTGCGGGAGGAGCAG
CAGCGGGAGCGCCTCCGCCAGGTGTCACGCATCCTGAGGAAGGCGGCTGCAGAGCGCAGCGGGAGGAGG
GCCGGCTCTTGCCGAGAGCGAGGATCTGGTGACCGAGCTGCAGGGTCTGAAGTCGGCGGCGTGTAGGGCCT
CAAGCGCCGCCAGGAGGAGGTGTGTGATGACCCGGAGGAGCTGCGGAGGAAGGTCCGCGAACTGGCCGGA
GCTGTCCGAAGTGCCAGGCACTTGGTTGTCTACACGGGCGCTGGAATCAGCACAGCAGCTTCTATCCAG
ATTATCGGGTCTAATGGAGTATGGACTGCTTACAGAAAGGAAGGCCTGTGAGTGCTGCCACCTAAG
CGAAGCGGAGCCTACCCTACCCACATGAGCATCACCCGTTTGCATGAGCAAAGCTGGTGAACACGTG
GTGTCTCAGAAGTGTGATGGGCTCCACCTGCGGAGTGGGTTGCCCGGACCGCCATCTCAGAGCTCCATG
GGAATATGTATATTGAAGTCTGCACCTCCTGCATCCCTAACAGAGAGTATGTACGAGTGTGATGTGAC
TGAGCGTACTGCCCTTACCGACACCTGACAGGCCGACCTGCCACAAGTGCGGGACCCAGCTTCGGGAT
ACCATTGTGCACTTTGGGAGAGGGGGACATTAGGGCAGCCTCTGAAGTGGGAGGAGCGACCGAGGCTG
CTAGCAAAGCAGACACAATCCTGTGTTTAGGGTCCAGCTTGAAGTACTAAAGAAATATCCCCGCTCTG
GTGCATGACGAAGCCTCCAAGCCGTCGACCCAACTCTACATCGTGAACCTGCAGTGGACCCCGAAGGAT
GACTGGGCTGCCCTGAACTCCAAGGAAAGTGTGATGATGATGCAACTCCTCATGAATGAACTGGGCC
TGGAGATTCTGTCTACAACCGGTGGCAGGATCCAATCTTCTCCTTGGCGACCCCTCCGCTGTGGTGA
AGAAGGCAGCCACAGTAGGAAGTCACTATGCAGAAGCAGAGAAGAAGCCCACTGGGGACCAGAGTGAC
CCCCTTGCCCTCAGCTCCCCTATCCTAGGAGGCTGGTTTGGCAGGGGTTGTGCCAAGCGTGCAAAAAGGA
AGAAAGTGGCATAGCCCGGAGTTGACAAAGAACAGTTGGCACTTGCAGATGGCTTGACCTTGTTCAGG
GGCTCCGCCCCTGTCCCGTGAAGGCGAGAGTGCCCCCTCCGGCTCTAGTGGGTGCCGGCTTCGCGGTGA
CGGTCGCTTTAGCCATTTGTCCTTGTGAAAGGCTCTCTTGCAGTGTGACTGCCCCGCTATGGGCT
TGATCTTCAAGGACACCTCCCTCCTGTTACCCCTGTACAAAGGTGGCAGCAAGGCTCTGTGAGAAGAG
CTCCGGCCCTTCCAGGCTGGCCAGCAGGAGAGTCCACCACTGCCTTACCTCACTCTCCAGGCTAGTCT
CAGGGCTCCCTCTTCTACTCCTTATCACGTACAAGTGTTCACCTTATAGAAGCCTTTTCTGTATTGG
GTATGCGGCACAGGGAGAATCTAACTAAGCCTCCAGTCTGAGCAAGTCTTATTAACATCTCTCAATTGC
TAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

```



[View online »](#)

<b>Restriction Sites:</b>	EcoRI-NotI
<b>ACCN:</b>	BC026403
<b>Insert Size:</b>	759 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC026403</a> , <a href="#">AAH26403</a>
<b>RefSeq Size:</b>	1712 bp
<b>RefSeq ORF:</b>	759 bp
<b>Locus ID:</b>	209011
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	NAD-dependent protein deacetylase that specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac). In contrast to other histone deacetylases, displays selectivity for a single histone mark, H3K18Ac, directly linked to control of gene expression. H3K18Ac is mainly present around the transcription start site of genes and has been linked to activation of nuclear hormone receptors. SIRT7 thereby acts as a transcription repressor. Moreover, H3K18 hypoacetylation has been reported as a marker of malignancy in various cancers and seems to maintain the transformed phenotype of cancer cells. These data suggest that SIRT7 may play a key role in oncogenic transformation by suppresses expression of tumor suppressor genes by locus-specific deacetylation of H3K18Ac at promoter regions (By similarity). Required to restore the transcription of ribosomal RNA (rRNA) at the exit from mitosis. Promotes the association of RNA polymerase I with the rDNA promoter region and coding region. Stimulates transcription activity of the RNA polymerase I complex. May also deacetylate p53/TP53 and promotes cell survival, however such data need additional confirmation.[UniProtKB/Swiss-Prot Function]