

## Product datasheet for **MC221246**

### **Sirt1 (NM\_019812) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sirt1 (NM_019812) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sirt1
Synonyms:	AA673258; S; Si; Sir2; Sir2a; Sir2alpha; SIR2L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221246 representing NM\_019812  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACGAGGTGGCGCTCGCCCTTCAGGCCGCGGCTCCCCTCCGCGGCGGCCGCATGGAGGCCG  
 CGTCGCAGCCGGCGGACGAGCCGCTCCGCAAGAGGCCCGCCGAGACGGGCTGGCTCGGGCGCAGCCC  
 GGGCGAGCCGAGCGCAGCAGTGGCGCGCGCGGCGGGGTGTGAGGCGGCGAGCGCGCGGCCCGGCG  
 GCGCTGTGGCGGAGGCGGCGAGGGCGCGGCGAGCGGAGCGGGAGGCCCGCGCAGGCCGTGGCCG  
 GGGACGGAGACAATGGTCCGGCTGCGCGGGAGCCGAGGGCGGCTGACGACTTCGACGACGACGAGGG  
 CGAGGAGGAGGACGAGGCGGCGGCGCAGCGGCGGCGCAGCGATCGGCTACCGAGACAACCTCCTGTTG  
 ACCGATGGACTCCTCAATGGCTTTCATTCTGTGAAAGTGATGACGATGACAGAACGTCACACGCCA  
 GCTCTAGTGACTGGACTCCGCGGCCGCGGATAGGTCCATATACTTTTGTTCAGCAACATCTCATGTTGG  
 CACCGATCCTCGAACAATTCTTAAAGATTTATTACCAGAAACAATTCCTCCACCTGAGCTGGATGATATG  
 ACGCTGTGGCAGATTGTTATTAATATCCTTTCAGAACCCAAAGCGGAAAAAAGAAAAGATATCAATA  
 CAATTGAAGATGCTGTGAAGTACTGCAGGAGTGTAAAAAGATAATAGTTCTGACTGGAGCTGGGGTTTC  
 TGTCTCCTGTGGGATTCTGACTTCAGATCAAGAGACGGTATCTATGCTCGCCTTGCGGTGGACTTCCCA  
 GACCTCCAGACCCTCAAGCCATGTTTGATATTGAGTATTTAGAAAAGACCCAAGACCATTCTTCAAGT  
 TTGCAAAGGAAATATATCCCGGACAGTTCAGCCGCTCTGTGTACAAAATTCATAGCTTTGTGAGATAA  
 GGAAGGAAAACACTCTCGAAATATACTCAAAAATAGATACTTGGAGCAGGTTGCAGGAATCCAAAGG  
 ATCCTTCAGTGTATGGTTCCTTTGCAACAGCATCTTGCCTGATTTGTAATAACAAAGTTGATTGTGAAG  
 CTGTTCTGTGGAGACATTTTAAATCAGGTAGTTCCTCGGTGCCCTAGGTGCCAGCTGATGAGCCACTTGC  
 CATCATGAAGCCAGAGATTGTCTTCTTTGGTGAACACTTACCAGAACAGTTTCATAGAGCCATGAAGTAT  
 GACAAAGATGAAGTTGACCTCCTCATTGTTATTGGATCTTCTCTGAAAGTGAGACCAGTAGCACTAATTC  
 CAAGTTCTATACCCCATGAAGTGCCTCAATATTAATAAATAGGGAACCTTTGCCTCATCTACATTTTGA  
 TGTAGAGCTCCTTGGAGACTGCGATGTTATAATTAATGAGTTGTGTATAGGCTAGGTGGTGAATATGCC  
 AAACCTTTGTTGTAACCTGTAAAGCTTTCAGAAATTAAGTAAAACTCCAGCCACAAAAGGAATTGG  
 TTCATTTATCAGAGTTGCCACCAACACCTTTCATATTTTCGGAAGACTCAAGTTCACCTGAAAGAAGTGT  
 ACCACAAGACTCTTCTGTGATTGCTACACTTGTAGACCAAGCAACAACAACAATGTTAATGATTTAGAA  
 GTATCTGAATCAAGTTGTGTGGAAGAAAACCAAGAAGTACAGACTAGTAGGAATGTTGAGAACATTA  
 ATGTGGAATAATCCAGATTTAAGGCTGTTGGTTCAGTACTGCAGACAAAATGAAAGAAGTTCAGTTGC  
 AGAAACAGTGAGAAAATGCTGGCCTAATAGACTTGCAAAGGAGCAGATTAGTAAGCGGCTTGAGGGTAAT  
 CAATACCTGTTTGTACCACCAATCGTTACATATTCACGGTGTGAGGTATACTCAGACTCTGAAGATG  
 ACGTCTTGTCTCTAGTTCCTGTGGCAGTAACAGTGACAGTGGCAGATGCCAGAGTCCAAGTTTGAAGA  
 ACCCTTGAAGATGAAAGTGAATTTGAAGAATTCTACAATGGCTTGAAGATGATACGGAGAGGCCCGAA  
 TGTGCTGGAGGATCTGGATTTGGAGCTGATGGAGGGGATCAAGAGGTTGTTAATGAAGCTATAGCTACAA  
 GACAGGAATTGACAGATGAAACTATCCATCAGACAAATCATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_019812

**Insert Size:** 2214 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).

<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>	<u><a href="#">NM_019812.2</a></u> , <u><a href="#">NP_062786.1</a></u>
<b>RefSeq Size:</b>	3920 bp
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	93759
<b>UniProt ID:</b>	<u><a href="#">Q923E4</a></u>
<b>Cytogenetics:</b>	10 B4
<b>Gene Summary:</b>	<p>This gene encodes a member of the sirtuin family of proteins, characterized by their deacetylase activity and proposed role in longevity. The encoded protein regulates gene expression in a wide range of cell and tissue types through its NAD<sup>+</sup>-dependent deacetylation of histones, transcription factors and transcriptional coactivators. Brain-specific overexpression of this gene has been shown to result in increased median lifespan. Viability of homozygous knockout mice for this gene varies with strain background. Homozygous knockout mice of strains that do not exhibit embryonic lethality are sterile and have a reduced lifespan. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>