

Product datasheet for **MC220605**

Sirt1 (NM_001159589) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sirt1 (NM_001159589) 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: >NM_001159589.1
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGACGAGGTGGCGCTCGCCCTTCAGGCCGCGGCTCCCCTTCGCGGCGGCCGCATGGAGGCCG
 CGTCGCAGCCGGCGGACGAGCCGCTCCGCAAGAGGCCCGCCGAGACGGGCTGGCCTCGGGCGCAGCCC
 GGGCGAGCCGAGCGCAGCAGTGGCGCGCGCGGCGGGGTGTGAGGCGGCGAGCGCGCGGCCCGGCCG
 GCGCTGTGGCGGAGGCGGCGAGGGCGCGGCGAGCGGAGCGGGAGGCCCGCGCAGGCCGTGGCCG
 GGGACGGAGACAATGGGTCGGCCTGCGCGGGAGCCGAGGGCGGCTGACGACTTCGACGACGACGAGGG
 CGAGGAGGAGGACGAGCGGCGGCGCAGCGGCGGCGCAGCGATCGGCTACCGAGGTCCATATACTTTT
 GTTCAGCAACATCTCATGATTGGCACCGATCCTCGAACAATTCTAAAGATTTATTACCAGAAACAATTC
 CTCACCTGAGCTGGATGATATGACGCTGTGGCAGATTGTTAATAATCCTTTTCAGAACCACAAAGCG
 GAAAAAAGAAAAGATATCAATACAATTGAAGATGCTGTGAAGTTACTGCAGGAGTGTAAAAAGATAATA
 GTTCTGACTGGAGCTGGGGTTTCTGTCTCCTGTGGGATTCCTGACTTCAGATCAAGAGACGGTATCTATG
 CTCGCCTTGGCGTGGACTTCCCAGACCTCCCAGACCCTCAAGCCATGTTTGATATTGAGTATTTAGAAA
 AGACCCAAGACCATTTCTCAAGTTTGCAAAGGAAATATATCCCGGACAGTTCAGCCGTCTCTGTGTAC
 AAATTCATAGCTTTGTCAGATAAGGAAGGAAACTACTTCGAAATATACTCAAAATATAGATACCTTGG
 AGCAGGTTGCAGGAATCCAAAGGATCCTTCAGTGTGATGGTTCCTTTGCAACAGCATCTTGCTGATTTG
 TAAATACAAAGTTGATTGTGAAGCTGTTCTGTGGAGACATTTTAAATCAGGTAGTTCCTCGGTGCCATGG
 TGCCAGCTGATGAGCCACTGCCATCATGAAGCCAGAGATTGTCTTCTTTGGTAAAACCTACCAGAAC
 AGTTTCATAGAGCCATGAAGATGACAAAGATGAAGTTGACCTCCTCATTGTTATTGGATCTTCTCTGAA
 AGTGAGACCAGTAGCACTAATTCCAAGTTCTATACCCCATGAAGTGCCTCAAATATAATAAATAGGGAA
 CCTTTGCCTCATCTACATTTTGTGTAGAGCTCCTTGGAGACTGCGATGTTATAATTAATGAGTTGTGTC
 ATAGGCTAGTGGTGAATATGCCAACTTTGTTGTAACCTGTAAAGCTTTCAGAAATTAAGTAAAAACC
 TCCACGCCACAAAAGGAATTGGTTCATTTATCAGAGTTGCCACCAACACCTCTTCATATTTGGAAGAC
 TCAAGTTCACCTGAAAGAAGTGTACCACAAGACTCTTCTGTGATTGCTACACTTTGAGACCAAGCAACA
 ACAACAATGTTAATGATTTAGAAGTATCTGAATCAAGTTGTGGAAGAAAAACCACAAGAAGTACAGAC
 TAGTAGGAATGTTGAGAACATTAATGTGAAAAATCCAGATTTTAAGGCTGTTGGTCCAGTACTGCAGAC
 AAAAATGAAAGAAGTTCAGTTGCAGAAACAGTGAGAAAATGCTGGCCTAATAGACTTGCAAAGGAGCAGA
 TTAGTAAGCGGCTTGAGGTAATCAATACCTGTTTGTACCACCAATCGTTACATATTCACGGTGCCTGA
 GGTATACTCAGACTCTGAAGATGACGCTTGTCTCTAGTTCTGTGGCAGTAACAGTGACAGTGGCACA
 TGCCAGAGTCCAAGTTTAGAAGAACCCTTGAAGATGAAAGTGAATTTGAAGAATTCTACAATGGCTTGG
 AAGATGATACGGAGAGGCCGAATGTGCTGGAGGATCTGGATTTGGAGCTGATGGAGGGGATCAAGAGGT
 TGTTAATGAAGCTATAGCTACAAGACAGGAATTGACAGATGTAACCTATCCATCAGACAAATCATAA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1495_b03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001159589

Insert Size: 2097 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:	<ol style="list-style-type: none">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:	<u>NM_001159589.1</u> , <u>NP_001153061.1</u>
RefSeq Size:	3806 bp
RefSeq ORF:	2097 bp
Locus ID:	93759
Cytogenetics:	10 B4
Gene Summary:	<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⁺-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 (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than 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>