

Product datasheet for **MC219207**

Sirt1 (NM_001159590) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sirt1 (NM_001159590) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sirt1
Synonyms:	AA673258; MGC150273; Sir2; Sir2a; Sir2alpha; SIR2L1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219207 representing NM_001159590
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGGAGCGGGCGGGCAGCGATCGGCTACCGAGGTCCATATACTTTTGTTCAGCAACATCTCA
 TGATTGGCACCGATCCTCGAACAACTTTAAAGATTTATTACCAGAAACAATTCCTCCACCTGAGCTGGA
 TGATATGACGCTGTGGCAGATTGTTAATATCCTTTCAGAACCACCAAGCGGAAAAAAGAAAAGAT
 ATCAATACAATTGAAGATGCTGTGAAGTTACTGCAGGAGTGAAAAAGATAATAGTTCTGACTGGAGCTG
 GGGTTTCTGTCTCCTGTGGGATTCCTGACTTCAGATCAAGAGACGGTATCTATGCTCGCCTTGCGGTGGA
 CTTCCAGACCTCCAGACCTCAAGCCATGTTTGATATTGAGTATTTAGAAAAGACCCAAAGACCATT
 TTCAAGTTTGAAAGGAAATATATCCCGGACAGTCCAGCCGCTCTGTGTCACAAATTCATAGCTTTGT
 CAGATAAGGAAGGAAAACACTCTCGAAATATACTCAAAATAGATACCTTGGAGCAGGTTGCAGGAAT
 CCAAAGGATCCTTCAGTGTGATGGTTCCCTTTCGCAACAGCATCTTGCCCTGATTTGTAATACAAAGTTGAT
 TGTGAAGCTGTTGCTGGAGACATTTTAAATCAGGTAGTTCCTCGGTGCCCTAGGTGCCAGCTGATGAGC
 CACTTGCCATCATGAAGCCAGAGATTGTCTTCTTGGTGAAGAACTTACCAGAACAGTTTCATAGAGCCAT
 GAAGTATGACAAAGATGAAGTTGACCTCCTCATTGTTATTGGATCTTCTCTGAAAGTGAGACCAGTAGCA
 CTAATTCGAAGTTCTATACCCCATGAAGTGCCTCAAATATAAATAAGGGAACCTTTGCCTCATCTAC
 ATTTTGATGTAGAGCTCCTTGGAGACTGCGATGTTATAATTAATGAGTTGTGCATAGGCTAGGTGGTGA
 ATATGCCAAACTTTGTTGTAACCCTGTAAGCTTTCAGAAATTAAGTGAAGAACTCCACGCCACAAAAG
 GAATTGGTTCATTTATCAGAGTTGCCACCAACACCTCTCATATTTGGAAGACTCAAGTTCACCTGAAA
 GAACTGTACCACAAGACTCTTCTGTGATTGCTACACTTGTAGACCAAGCAACAACAACAATGTTAATGA
 TTTAGAAGTATCTGAATCAAGTTGTGGAAGAAAAACCAAGAAGTACAGACTAGTAGGAATGTTGAG
 AACATTAATGTGGAAGTCCAGATTTTAAAGCTGTTGGTTCCAGTACTGCAGACAAAAATGAAAGAACTT
 CAGTTGCAGAAACAGTGAGAAAATGCTGGCCTAATAGACTTGCAAGGAGCAGATTAGTAAGCGGCTTGA
 GGGTAATCAATACCTGTTGTACCACCAATCGTTACATATTCCACGGTCTGAGGTATACTCAGACTCT
 GAAGATGACGCTTGTCTCTAGTTCCTGTGGCAGTAAAGTGCAGTGGCACATGCCAGAGTCCAAGTT
 TAGAAGAACCCTTGAAGATGAAAGTGAATTGAAGAATCTACAATGGCTTGAAGATGATACGGAGAG
 GCCCGAATGTGCTGGAGGATCTGGATTTGGAGCTGATGGAGGGGATCAAGAGTTGTTAATGAAGCTATA
 GCTACAAGACAGGAATTGACAGATGTAAGTATCCATCAGACAAATCA**TAA**

ACGGCTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001159590
- Insert Size:** 1731 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_001159590.1](#), [NP_001153062.1](#)

RefSeq Size: 3400 bp

RefSeq ORF: 1731 bp

Locus ID: 93759

Cytogenetics: 10 B4

Gene Summary: 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]