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Product datasheet for MC207484

Sirt6 (NM_181586) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sirt6 (NM_181586) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sirt6
Synonyms:	2810449N18Rik; AI043036; Sir2l6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207484 representing NM_181586 Red=Cloning site Blue=ORF TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGGTGAATTATGCAGCAGGGTTGTCGCCTTACGCGGATAAGGGCAAGTGCGGGCTGCCCGAGATCT TCGACCCACCAGAGGAGCTGGAACGCAAGGTGTGGGAGCTGGCCCGGCTAATGTGGCAGTCCTCCAGCGT GGTTTTCCACACGGGCGCCGGCATCAGCACCGCCTCTGGCATCCCCGACTTCAGAGGCCCCCATGGCGTG TGGACCATGGAGGAACGCGGCCTGGCCCCCAAGTTTGACACCACCTTCGAGAATGCTCGGCCCTCGAAGA CCCACATGGCCCTGGTTCAGCTAGAACGCATGGGCTTCCTCAGCTTCCTGGTCAGCCAGAACGTAGACGG GCTGCACGTGCGCTCGGGCTTCCCCAGGGACAAGCTGGCAGAGCTGCACGGAAACATGTTTGTAGAGGAA TGTCCCAAGTGTAAGACGCAGTACGTCAGAGACACGGTTGTGGGCACCATGGGCCTCAAGGCCACAGGCC GGCTCTGCACCGTGGCCAAGACCAGGGGACTTCGGGCCTGTAGAGGGGAGCTGAGAGACACCATTCTGGA CTGGGAGGACTCGTTGCCTGACCGGGACCTGATGCTCGCTGATGAGGCCAGCAGGACCGCAGACCTGTCT GTCACCCTGGGTACCTCGCTGCAGATCCGCCCCAGTGGGAACCTGCCCCTTGCCACTAAGCGCCGAGGAG GCCGTCTGGTCATTGTCAACCTGCAACCCACAAAACATGACCGCCAGGCTGACCTGCGCATCCACGGCTA CGTGGATGAGGTGATGTGCAGACTCATGAAGCATCTGGGGCTGGAGATTCCAGCCTGGGATGGACCCTGC GTGCTAGACAAAGCCCTGCCACCTCTGCCTCGCCCAGTAGCACTCAAGGCTGAGCCCCCCGTGCATCTCA ATGGTGCAGTGCATGTTTCGTATAAGTCCAAGCCCAACAGCCCTATACTCCACAGGCCCCCCAAAAGAGT GAAGACCGAGGCTGCCCCCAGCTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI

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ACCN:	NM_181586
Insert Size:	1005 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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:	BC052763, AAH52763
RefSeq Size:	1682 bp
RefSeq ORF:	1005 bp
Locus ID:	50721
UniProt ID:	P59941
Cytogenetics:	10 39.72 cM

Gene Summary: NAD-dependent protein deacetylase. Has deacetylase activity towards histone H3K9Ac and H3K56Ac. Modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. Deacetylates histone H3K9Ac at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes. Deacetylation of nucleosomes interferes with RELA binding to target DNA. May be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. On DNA damage, promotes DNA end resection via deacetylation of RBBP8. Has very weak deacetylase activity and can bind NAD(+) in the absence of acetylated substrate (By similarity). Acts as a corepressor of the transcription factor Hif1a to control the expression of multiple glycolytic genes to regulate glucose homeostasis. Required for genomic stability. Required for normal IGF1 serum levels and normal glucose homeostasis. Modulates cellular senescence and apoptosis. Regulates the production of TNF protein. Has a role in the regulation of life span in male mice, but not in female mice.[UniProtKB/Swiss-Prot Function]
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.