

Product datasheet for **SC123758**

SIRT6 (NM_016539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT6 (NM_016539) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT6
Synonyms:	SIR2L6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_016539 edited
AGGATGTCGGTGAATTACGCGCGGGGCTGTCGCCGTACGCGGACAAGGGCAAGTGCGGC
CTCCCGGAGATCTTCGACCCCCGGAGGAGCTGGAGCGGAAGGTGTGGAACTGGCGAGG
CTGGTCTGGCAGTCTCCAGTGTGGTGTCCACACGGGTGCCGGCATCAGCACTGCCTCT
GGCATCCCCGACTTCAGGGGTCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCC
CCCAAGTTCGACACCACCTTTGAGAGCGCGCGGCCACGCAGACCCACATGGCGTGGTG
CAGCTGGAGCGCGTGGGCTCCTCCGCTTCTGGTCAGCCAGAACGTGGACGGGTCAT
GTGCGCTCAGGCTTCCCCAGGGACAACTGGCAGAGCTCCACGGGAACATGTTTGTGGAA
GAATGTGCCAAGTGAAGACGCAGTACGTCCGAGACACAGTCGTGGGCACCATGGGCCTG
AAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGA
GAGCTGAGGGACACCATCTAGACTGGGAGGACTCCCTGCCCGACCGGGACCTGGCACTC
GCCGATGAGGCCAGCAGGAACGCCGACCTGTCCATCACGCTGGGTACATCGTGCAGATC
CGGCCAGCGGGAACCTGCCGCTGGCTACCAAGCGCCGGGGAGGCCGCTGGTCATCGTC
AACCTGCAGCCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCATGGCTACGTTGAC
GAGGTCATGACCCGGCTCATGAAGCACCTGGGGCTGGAGATCCCCGCCTGGGACGGCCCC
CGTGTGCTGGAGAGGGCGCTGCCACCCCTGCCCGCCCGCCACCCCAAGCTGGAGCCC
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TGCGCCCAGCACAAACGGCTCAGAGCCCAGCCCAAAACGGGAGCGGCCACCAGCCCT
GCCCCCAGACCCCCAAAAGGGTGAAGGCCAAGGCGGTCCCCAGCTGACCAGGGTGC
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TGTTACTTGTTTTGTGCCCGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGG
GTTACACCTGCCCTCCGTGGTCCCTCCCTGGGCTCCAGGGCCTCTGGTCCGTTCCGGG
AAGAAGCCACACCCAGAGGTGACAGCTGAGCCCCTGCCACACCCAGCCTCTGACTTGC
TGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAACAGGAGTAACT
CCCTCTGTCCCCAGGCCCTCCCTTCTGGGCCCTACAGCCACCCCTACCCTCTCCAT
GGGCCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGATCAGTAGAGGCTTGCAGTGC
TTTGGGCTGGAGGGAGAGCTGGGTCCACCAGGCTTCTGGAAAAGTCTCAATGCAATAA
AAACAATTTCTTTCTTGCAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_016539 unedited
GGACCTTGGTTTTGTATACGACTTATATAGGGCGGCCGGAATTCGCACGAGGAGATGT
CGGTGAATTACGCGCGGGGCTGTCCGCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGG
AGATCTTCGACCCCCGGAGGAGCTGGAGCGGAAGGTGTGGAACTGGCGAGGCTGGTCT
GGCAGTCTCCAGTGTGGTGTCCACACGGGTGCCGGCATCAGCACTGCCTCTGGCATCC
CCGACTTCAGGGGTCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCAAGT
TCGACACCACCTTTGAGAGCGCGCGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGG
AGCGCGTGGGCTCCTCCGCTTCTGGTCAGCCAGAACGTGGACGGGTCATGTGCGCT
CAGGCTTCCCCAGGGACAACTGGCAGAGCTCCACGGGAACATGTTTGTGGAAGAATGTG
CCAAGTGAAGACGCAGTACGTCCGAGACACAGTCGTGGGCACCATGGGCCTGAAGGCCA
CGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAGCTGA
GGGACACCATCTAGACTGGGAGGACTCCCTGCCCGACCGGGACCTGGCACTCGCCGATG
AGGCCAGCAGGAACGCCGACCTGTCCATCACGCTGGGTACATCGTGCAGATCCGGCCCA
GCGGGAACCTGCCGCTGGCTACCAAGCGCCGGGGAGGCCGCTGGTCATCGTCAACTGC
AGCCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCATGGCTACGTTGACGAGGGTC
ATGACCCGCTCATGAAGCACCTGGGGCTGGAGATCCCCGCTGGGACNGCCCCGTGTGC
TGAGAGGGCGCTNGCACCCCTGCCCGCCGNCACCC
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016539 unedited NAATTAGAAACAGTTTTTATTGCATTGNAGACTTTTCCAGAACCTGGTGGACCCACGTCT CCCTCCAGCCCCAAAGCAGTGCAAGCCTCTACTGATCCCCCACTTCAGGTGGGTCTCCCC TCCTGCAGGGCCCATGGAGGAGGGGTAGGGTGGGCTGTAGGGGGCCAGAAAGGAGGCC TGGGGACAGAGGGAGTTCACTCCTGTTAAGCTGGAGACCAGGGAGGGCCAGCCTCACC TCTGGACAACACAGCAAGTCAGAGGCTGGGGTGTGGCAGGGGCTCAGCTGTCACCTTGG GGTGTGGCTTCTCCCGGAACCCGACACAGAGGCCCTGGAGCCAGGGAGGGACCACGGA GGGCAGGTGTAACCCCTGGCCTGGAGCACAGCTCTCAGAGCCCTGAGGCTCCCGGGGACA GAAACAAGTAACAAGTGAAGACACGAGAGAAAAAGAATCCACAGTTTCTACAAAAGCC CCACCCTCCCAAGCACCTGGTCAGCTGGGGACCGCCTTGGCCTTACCCTTTTGGGGG GTCTGTGGGGGCGAGGGCTGGTGGGCCGCTCCCGTTTGGGGCTGGCGGGCTCTGAGCCGT TGTGCTGGGCGCAGGGCTCTGCTTGGGGCCGGCGGGATAGAGCCGTTGATCCGGGTGG GAGATTCTCCTTGGGCTCCAGCTTGGGGTGGGCGGGCGGGCAGGGGTGGCAGCGCC TCTCCAGCACACGGGGCCGTCAGGCGGGGATCTCCAGCCCCAGTGTTCATGACC GGGTCATGACCTCGTCAACGTACCCTTGGATGCCGAAGTCAACCTGGCCGTCGTGCTTGG TTGGCTGCCGGTTGACAATGACCAGCGCCCCCGGCGCTTTGTAGCCAGCGGCAGGTT CCG
Restriction Sites:	Please inquire
ACCN:	NM_016539
Insert Size:	1600 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:	NM_016539.1 , NP_057623.1
RefSeq Size:	1638 bp
RefSeq ORF:	1068 bp
Locus ID:	51548
UniProt ID:	Q8N6T7
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, Transcription Factors

Gene Summary:

This gene encodes a member of the sirtuin family of NAD-dependent enzymes that are implicated in cellular stress resistance, genomic stability, aging and energy homeostasis. The encoded protein is localized to the nucleus, exhibits ADP-ribosyl transferase and histone deacetylase activities, and plays a role in DNA repair, maintenance of telomeric chromatin, inflammation, lipid and glucose metabolism. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]