

## Product datasheet for **SC102256**

### **SIRT5 (BC035196) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SIRT5 (BC035196) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT5
Synonyms:	SIR2L5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for BC035196, the custom clone sequence may differ by one or more nucleotides

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AGCGGGATGTGACCCACAGCCCTATTGGCTCAGCATGCGAGAGAGCAGGGATGGTGTCTCCCAAGGAAGG
ACTGGTGGGCAGGACGGAGCAGCGCATGTCCACTAGGGTTGAAAGTGCTCTGCACGGCACCAGTTGCCTG
GTACCCATTTCAAACACTGTGGCCACCATTGCTTCAGCTCAATAAGTGGTGGTTAGTATTAACAATT
ACTTTTTTCACTTATTAGTTGATTACTTATTTATTGAGGTGCTTTTGTATAAAAGATTCAAGCTTTCTGA
AATCGAAGTTAAAATTTGTAACATATCCCACGCCATTGAACCTTTGTCAAGTCAATGTAATAAATCACG
CCCTTAGATTTAGGTTGAGCTCCCTCTACCCTATTGGCAACTTCTGCCACTTGAACACCACTCCAAGGT
CATCTGATGGCACATTAGTCATGGAGTTATTTATTTTCTCCAGATTATAAAGTCTTGAGGGCATATG
CTCTTGACTGGCTTAAGAGTACTGCATGCCTCTGTTTCCCATGAAAGCTAAAGCTAGGGTAGGCCATTT
GCTAAAATGAAGTATGGCTCAGTGTGGCGTGCACACCTATAGTCCCAGCTGCTCAGGAGGCAAAGGTGG
GAGGATCGCTTGAGCCCATGAGTTGGAAGCTGCAGTGCAGTATGATCGTACTGCTGCACTCCAGCCTGGG
TAACTGGGTGAGACAAAACATGAAATGAAGTGTGAAAAATAAAGTATCTTATACCTTTTAGACATGGA
GAAGGTTGCTCTTGATTACTAAATCTGGATTGCTTCATATGTATTTTTTTCAGGTAGCTTATTTAAAA
CTCGATGTACCTCTGTGGAGTTGTGGCTGAGAATTACAAGAGTCCAATTTGTCCAGCTTATCAGGAAA
AGGGTAATTATACCACACTACAGAATAAGTATAGGTTGTTTTCTCCTTTAGGTTGAACATAAATGTGAGG
AAATTGAACATTCATCAAAGATCCCATGGATATTTATGAGAAAATAAGACTAAATACAAGGCTGGGTGCA
GTGGCTCATGCCTGTAATCCCAGCACTTTGGGGTTACAAGGTGGGGAGACTGCTTGAGTTCAGGAGTTCA
AGACCAGCCTGGGCAACACAGTGAAGAACTGTCTACAAAAAACAACAAAAAACCACAAAA
ATTAGCTGGGTGTGGTGGCACATGCCTGTAGTCCCAGCTACTAGGGAGGCTGAGGTGGGAGGGTTATTTG
AGCCTGGGAAGTCAAGGCTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGTGCAGT
ACCATGTCTCAAAAAACAACAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAAC
CTCACAACCTACAGTGTTAAGTGAACACACAGGGTCTAAATTTGTACACACAATGAGTTCGTGTATCT
GTATATAGTTAAAAGACCAGAAGAAAATACAACAAAATGTTAATAAGGAATATCAGGAGTGGAGGGATTA
TGGGTAATTTTTAATTTCTTTTATATCTTTCTGAATTTTCTATATTTCTATTATGAACATGACTAT
TATTACAATGAGGAAAAATTTGAGGGTAGACACAATTTGAGAAAAATCCACTCAGCCTTTAAAAAC
AGTATAAATTGTATAAGGACTATATAATGTCATTGCAGAGGATACAAATGATGATGATGATGATGATGATAA
AGGTAACATGAAGTTCCCCCTTGGCACACCCAGCCACTCCAGCCCTCCCACACATGCATTCCCTCACT
GGCAGTACAACCACTGGTGATTTTTTTTTTTCTGAGACAGGTTCTTGCTCTGTTTCCCAGGCTGGAGTGC
AGTGGCACAATCACACCTTACTGCAGCCTCCAACCTCCTGGGCTCGAGCAATCCTCCTGCCTCAGCCTCCC
AAGTAGCTAGGACTATAGGCACACATCACCACACTCAGCTAATTTTTGTATTTCTGGTAGAAATGCAGTC
TACTGTATTGCCGAGGGTTGTCTTGAACCTTCTGGCCTCAAGCAGTCCTCCCCTTTGGCCTCACCAGAT
GCTGGGATTACAGGCATGAGCCACTGTGCCCAGCACCCTGGTAATTAATGGCTTGGGGTCTTCTCTTCT
AATGCCCTTCAAAGTGAAGTATTAATTAAGGAGTTTATACCACATACTGCCAGGCAATATACAAAAC
TGAGTTATGTTGTTTCTTTATTTTTTATATGCCAATAACAATCTTTCTTTTCTAATATTATTTACTTCA
GTGCTCCAGAACCTGAACTCAAGATGCCAGCATCCCAGTTGAGAAACTCCCGGTAGGTAGAAAACCTC
TGATTTGACTGGTGTCCAGGTTACCAAAAACAAAAAACAACAAAAAACAACAAAAAACAACAAAAAACAAC
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC035196 unedited  
 NAGGGTTCACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCTTCTT  
 TCAGCTTTTCTACTCTTTGAGGTGGCCTCCCTTCTCTCTGCAATTGATCTGTCTCCA  
 CGCGCCAAGGGAGAGTGCCTCCGACGGCTCCAGCTCAGCCACCTGCTCAGAAAATAAAC  
 TCTGGGTAGGCTTGCTTGGTCCACACGCCACCCTTCTGACCAACACGACTGCAGAGGG  
 ATGGACACCACATGGGGCCGTGCGCAGCATGTGGCTGAGCTTGATTTGGGATGTGACC  
 CACAGCCCTATTGGCTCAGCATGCGAGAGAGCAGGGATGGTGTCTCCCAAGGAAGGACTG  
 GTGGGCAGGACGGAGCAGCGCATGTCCACTAGGGTTGAAAGTGCTCTGCACGGCACCAGT  
 TGCTTGGTACCCATTTTCATAAACTGTGGCCACCATGATTGCTTCAGCTCAATAAGTGGT  
 GTTAGTATTAACAATTACTTTTTTCACTTATTAGTTGATTACTTATTTATTGAGGTGCTT  
 TTGTATAAAAGATTCAAGCTTTCTGAAATCGAAGTTAAAATTTTGTAAACATATCCCACG  
 CCATTGAACCTTTGTGAGTCAATCAATAAATCACGCCCTTAGATTTAGGTTGAGCTCCC  
 TCTACCCTATTGGCAACTTCTGCCCACTGAACACCCTCAAGGTCATCTGATGGCACA  
 TTAGTCATGGAGTATTTATTTTCTCCAGATTATAAAGTCTTGNAGGCATATGCTCT  
 TGACTGGCTTAAGATACTGCATGCCTCTNGTTCCCCATGAAGCTAAAGCTAGGGTAGGCC  
 CATTTGCTAAAATGAAGTATGGCTCAGTGTGGCAGTGCACACCTATAGTCCCAGCTGCTC  
 AGGAGGGCAAGTGNNAGATC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for BC035196 unedited  
 ATTTACTGTGNACCGCGCCGTATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTAA  
 TCTATGAACATTCTGTTGGTCTGTAACCTCTCTATTACAGTCTTTTATTGCCTCCC  
 TAACCCTGGATTAATAATGCCAGTATGTTATTTGACCAGTTACAGGTCAGCCCCTATGC  
 TTTCTGTACACTGGTAACCACCTGTGCGACGACAGCTTCAGAACTTTCCCGACCTCAA  
 ATGATCCTACCACAACACAAAAGCAAAAAGAGGTTGGAAAAAATCATTCTTTTCATCCTA  
 ATTTGGTTCATCCTTTGCTTTTCACTTTTGGTCTCAGAGATCAAGCCTGGTTTTTACAT  
 TTGTGCATTTGATTAAGAGGCGTCTTGCCAAATACATGTTTAGGTTTTGATGTCTGTTT  
 TTTTTTTGTTTTGGTAACCTGGAACACCAGTACAAATCAGAGTTTTCTACCTACCGGG  
 AAGTTTCTCAACTGGGATGCTGGCATCTTGAGTCCAGGTTCTGGAGCACTGAAGTAAAT  
 AATATTAAGAAAGAAAGATTGTTATTGGCATAATTAATAAATAAGAAACAACCTAACTTC  
 ATTTGTATATTTCTCTGGGAGTATGTGGGATAAACTCCTAATTAACATGCTCACTTGG  
 AAGGGCATTATAAGGGAAGGACCCACGCCACTAATTACCCGTGGGTGCTGGGCACAAAT  
 GGGCTCATGCCTGGTAATTCCCCCTTTTGGTGAAGCCACAATGGGGAGGACTTGCTGG  
 AGCCACAAATTTCAAAAAAACCCTCGCCAAATCAGTAAAATTGGCTTTTTTACCCTGAAA  
 AACAAAAATTAGCTGAATGCGGCGAAGGTGGCCCAAAGGCCAAATACCCTGGTAGACCG  
 ACAGCAGAAGATATCTTCCCGCCCAATTGTGT

**Restriction Sites:**

NotI-NotI

**ACCN:**

BC035196

**Insert Size:**

3200 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:** [BC035196.1](#)

**RefSeq Size:** 2428 bp

**RefSeq ORF:** 2428 bp

**Locus ID:** 23408

**Cytogenetics:** 6p23

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2010]