

## Product datasheet for **SC319613**

### **SIRT7 (NM\_016538) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SIRT7 (NM_016538) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT7
Synonyms:	SIR2L7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_016538.1  
 GTCTCCAGGGGAGCGATGGCAGCCGGGGTCTGAGCCGCTCCGAGCGCAAAGCGGCGGAG  
 CGGGTCCGGAGGTTGCGGGAGGAGCAGCAGAGGGAGCGCCTCCGCCAGGTGTGCGGCATC  
 CTGAGGAAGGCGGCGGCGGAGCGCAGCGCCGAGGAGGGCCGGTCTGTCGCGAGAGCGCG  
 GACCTGGTAACGGAGCTGCAGGGCCGAGCCGGCGGCGGAGGGCCTGAAGCGGCGGAG  
 GAGGAGGTGTGCGACGACCCGGAGGAGCTGCGGGGAAGTCCGGGAGCTGGCCAGCGCC  
 GTCCGGAAACGCCAAATACTTGGTCGTCTACACAGGCGCGGGAATCAGCACGGCAGCGTCT  
 ATCCCAGACTACCGGGGCCCTAATGGAGTGTGGACACTGCTTCAGAAAGGAGAAGCGTT  
 AGTGCTGCCGACCTGAGCGAGGCGAGCCAACCCTCACCCACATGAGCATCACCCGCTCTG  
 CATGAGCAGAAGCTGGTGCAGCATGTGGTGTCTCAGAAGTGTGACGGGCTCCACCTGAGG  
 AGTGGGCTGCCGCGCACGGCCATCTCCGAGCTCCACGGGAACATGTACATTGAAGTCTGT  
 ACCTCCTGCGTTCCCAACAGGGAGTACGTGCGGGTGTTCGATGTGACGGAGCGCACTGCC  
 CTCCACAGACACCAGACAGGCCGACCTGCCACAAGTGTGGGACCCAGCTGCGGGACACC  
 ATTGTGCACTTTGGGAGAGGGGACGTTGGGGCAGCCTCTGAACTGGGAAGCGGCGACC  
 GAGGCTGCCAGCAGAGCAGACACCATCCTGTGTCTAGGGTCCAGCCTGAAGGTTCTAAAG  
 AAGTACCACGCCTCTGTGTCATGACCAAGCCCCCTAGCCGGCGCCGAAGCTTTACATC  
 GTGAACCTGCAGTGGACCCGAAGGATGACTGGGCTGCCCTGAAGCTACATGGGAAGTGT  
 GATGACGTGATGCGGCTCCTCATGGCCGAGCTGGGCTTGAGATCCCCGCCTATAGCAGG  
 TGGCAGGATCCCATTTTCTCACTGGCGACTCCCCTGCGTGTGGTGAAGAAGGCAGCCAC  
 AGTCGGAAGTCGCTGTGCAGAAGCAGAGAGGAGGCCCGCCTGGGGACCGGGTGCACCG  
 CTTAGCTCGCCCCCATCCTAGGGGGTGGTTTGGCAGGGGCTGCACAAAACGCACAAAA  
 AGGAAGAAAGTACGTAATCACGTGCTCGATGAAGAACAGTTGGCACTTTGCAGATGGCC  
 AGTGTACGGTGAAGGCTGGGTTGCCCCACGGGTCTAGGGAGAACGAACCTTTTGGGGA  
 TGACATTTTACCGTGACATTTTGTAGCCATTTGTCTTGGAGGAAGCCCTTGCAGTGTG  
 CGGTTGTACCCTGATACGGCCTGGCCATCGAGGACACCTGCCATCCGGCCTCTGTGTCA  
 AGAGGTGGCAGCCGACCTTTCTGTGAGAACGGAACCTCGGGTTATTTAGCCCCGGCCTG  
 CAGAGTGAAGCGCCAGCGCCCTTCTCGCTCACCAGGCCAGTCTCAGGGCCTCACCG  
 TATTTCTACTACTTAATGAAAAAGTGAACCTTTATAGAATCCTCTGTACTGGAT  
 GTGCGGCAGAGGGTGGCTCCGAGCCTCGGCTCTATGCAGACCTTTTATTTCTATTA  
 CGTTTCTGCACTGGCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_016538

**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](mailto: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](#)

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_016538.1</a></u> , <u><a href="#">NP_057622.1</a></u>
<b>RefSeq Size:</b>	1718 bp
<b>RefSeq ORF:</b>	1203 bp
<b>Locus ID:</b>	51547
<b>UniProt ID:</b>	<u><a href="#">Q9NRC8</a></u>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	SIR2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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 IV of the sirtuin family. [provided by RefSeq, Jul 2008]