

Product datasheet for **SC321579**

SIRT5 (NM_012241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT5 (NM_012241) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT5
Synonyms:	SIR2L5
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_012241.2
 CCGGAGCGCGGTCCGGACACAGCGCCTCTAGGAGAAAAGCCTGGAAGGCGCTCCGGGGGTA
 CCCAGAGCTCTTAGCGGGCCGGCAGCATGTGCGGGGCCAAAGTAAATGGAAATGTTTTCT
 AACATATAAAAACCTACAGAAGAAGAAAATAATTTTCTGGATCAAATTAGAAGTCTGTAT
 TATATTGATGTCTCCAGATTCAAATATATTAGAAAAGCAGCCGTGGAGACAACCATCTTCA
 TTTTGGGAGAAAATAACTAAAGCCCGCCTCAAGCATTAGAACTACAGACAAAACCTGATGC
 GACCTCTCCAGATTGTCCAAGTCGATTGATTTCCAGCTATATTGTGGCCTGAAGCCTC
 CAGCGTCCACACGAAACCAGATTTGCCTGAAAATGGCTCGGCCAAGTTCAAGTATGGCAG
 ATTTTCGAAAAGTTTTTTCAAAAGCAAAGCACATAGTCATCATCTCAGGAGCTGGTGTTA
 GTGCAGAAAAGTGGTGTCCGACCTTCAGAGGAGCTGGAGGTTATTGGAGAAAATGGCAAG
 CCCAGGACCTGGCGACTCCCCTGGCCTTGGCCACAACCCGTCCCGGGTGTGGGAGTTCT
 ACCACTACCGGCGGGAGGTGATGGGGAGCAAGGAGCCCAACGCCGGGCACCGGCCATAG
 CCGAGTGTGAGACCCGGCTGGGCAAGCAGGGCCGGCGAGTCGTGGTCATCACCCAGAACA
 TCGATGAGCTGCACCGCAAGGCTGGCACCAAGAACCCTTCTGGAGATCCATGGTAGCTTAT
 TAAAACTCGATGTACCTCTTGTGGAGTTGTGGCTGAGAATTACAAGAGTCCAATTTGTC
 CAGCTTTATCAGGAAAAGGTGCTCCAGAACCTGGAACCTAAGATGCCAGCATCCCAGTTG
 AGAAACTTCCCCGGTGTGAAGAGGCAGGCTGCGGGGGCTTGCTGCGACCTCATGTCTGT
 GGTGGAGAAAACCTGGATCCTGCCATTCTGGAGGAGTTGACAGAGAGCTCGCCCACT
 GTGATTTATGTCTAGTGGTGGGCACTTCTCTGTGGTGTACCCAGCAGCCATGTTTGCC
 CCCAGGTGGTGGCAGGGGCGTGGCAGTGGCTGAATTTAACACGGAGACCACCCAGCTA
 CGAACAGATTCAGGTTTCATTTCCAGGGACCCTGTGGAACGACTTCTCTGAAGCCCTTG
 CCTGTCATGAAAATGAACTGTTTCTTAAGTGTCTGGGAAGAAAGAAATTACAGTATA
 TCTAAGAAGTGGCCACACGAGAGGAGAAATGGTCTTATGGGTGGTGGTGGTGGTGGT
 AACCAATCTAAAAATAGCCTCTGATTCCCTCGCTGGAATCCAACCTGTTGATAAGTGATGG
 GGGTTTAGAAGTAGCAAAGAGCACCCACATTCAAAGTACAGAACTGGAAAGTTAATTC
 ATATTATTTGGTTGAACTGAAACGTGAGGTATCTTTGATGTGTATGGTTGGTTATTGGG
 AGGGAAAAATTTGTAATTAGATTGTCTAAAAAAAATAGTTATTCTGATTATATTTTTG
 TTATCTGGGCAAAGTAGAAGTCAAGGGTAAAAACCCTACTATTCTGATTTTTGCACAAG
 TTTTAGTGAAAATAAAATCACACTCTACAGTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_012241

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](#)

OTI Annotation: 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.

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:	<u>NM_012241.2, NP_036373.1</u>
RefSeq Size:	1670 bp
RefSeq ORF:	933 bp
Locus ID:	23408
UniProt ID:	<u>Q9NXA8</u>
Cytogenetics:	6p23
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longest 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.</p>