

Product datasheet for **SC310543**

SIRT4 (NM_012240) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT4 (NM_012240) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT4
Synonyms:	SIR2L4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_012240 edited
 GTCCGTAGAGCTGTGAGAGAATGAAGATGAGCTTTGCGTTGACTTTCAGGTCAGCAAAG
 GCCGTTGGATCGCAAACCCAGCCAGCCGTGCTCGAAAGCCTCCATTGGGTTATTTGTGC
 CAGCAAGTCCTCCTCTGGACCCTGAGAAGGTCAAAGAGTTACAGCGCTTCATCACCTTT
 CCAAGAGACTCCTTGTGATGACTGGGGCAGGAATCTCCACCGAATCGGGGATACCAGACT
 ACAGGTCAGAAAAGTGGGGCTTTATGCCCGCACTGACCGCAGGCCATCCAGCATGGT
 ATTTTGTCCGGAGTGCCCAATCCGCCAGCGGTACTGGGCGAGAACTTCGTAGGCTGGC
 CTCAATTCTCCTCCACCAGCCTAACCCCTGCACACTGGGCTTTGAGCACCTGGGAGAAAC
 TCGGAAAGCTGTACTGGTTGGTGACCCAAAATGTGGATGCTTTGCACACCAAGGCGGGGA
 GTCGGCGCCTGACAGAGCTCCACGGATGCATGGACAGGGTCTGTGCTTGGATTGTGGG
 AACAGACTCCCCGGGGGTGCTGCAAGAGCGTTTCCAAGTCCTGAACCCACCTGGAGTG
 CTGAGGCCATGGCCTGGCTCCTGATGGTGACGCTTTTCTCTCAGAGGAGCAAGTCCGGA
 GCTTTCAGGTCCAACCTGCGTTCAATGTGGAGGCCATCTGAAACCAGATGTCGTTTTCT
 TCGGGGACACAGTGAACCTGACAAGGTTGATTTTGTGCACAAGCGTGTAAAAGAAGCCG
 ACTCCCTCTTGGTGGTGGGATCATCCTTGCAAGTATACTCTGGTTACAGGTTTATCCTCA
 CTGCCTGGGAGAGAAGCTCCCGATTGCAATACTGAACATTGGGCCACACGGTCGGATG
 ACTTGGCGTGTCTGAAACTGAATTCTCGTTGTGGAGAGTTGCTGCCTTTGATAGACCCAT
 GCTGACCACAGCTGATATCCAGAACCTGGAACAGGGACTTTCACTTGAATCTTGCTGC
 TAAATGTAATGCCTTCTCAAATGACAGATTCCAGTTCACATCAACAGAGTAGGGTGC



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_012240 unedited NNNTTTTGGGGGGTTCAAATTTGTATACGACTCACTATAGGGCGGCCGCCAGTGTGATG GAATCTGCAGAATTGCGCCTTGTCCGTAGAGCTGTGAGAGAATGAAGATGAGCTTTGCGT TGACTTTCAGGTGAGCAAAAGGCCGTTGGATCGCAAACCCAGCCAGCCGTGCTCGAAAG CCTCCATTGGGTTATTTGTGCCAGCAAGTCTCCTCTGGACCCTGAGAAGTCAAAGAGT TACAGCGCTTCATCACCTTTCCAAGAGACTCCTTGTGATGACTGGGGCAGGAATCTCCA CCGAATCGGGGATACCAGACTACAGGTCAGAAAAAGTGGGGCTTTATGCCCGCACTGACC GCAGGCCATCCAGCATGGTGATTTTGTCCGGAGTGCCCAATCCGCCAGCGGTACTGGG CGAGAACTTCGTAGGCTGGCCTCAATTCTCTCCACCAGCCTAACCTGCACACTGGG CTTTGAGCACCTGGGAGAACTCGGAAAGCTGACTGGTGGTGACCCAAAATGTGGATG CTTTGCACACCAAGCGGGGAGTCGGCGCCTGACAGAGCTCCACGGATGCATGGACAGGG TCCTGTGCTTGGATTGTGGGGAACAGACTCCCCGGGGGTGCTGCAAGAGCGTTTCCAAG TCCTGAACCCACCTGGAGTGTGAGGCCATGGCCTGGCTCCTGATGGTGACGTCTTTC TCTCAGAGGAGCAAGTCCGGAGCTTTCAGGTCCCAACCTGCGTTCAATGTGGAGGCCATC TGAACCCAGATGTCGTTTTCTTCGGGGACACAGTGAACCTGACAGGTTGATTTTGTGCA CCAGCGTGTAAGAAGCCGNACTCCTCTTGGTGGN
Restriction Sites:	Please inquire
ACCN:	NM_012240
Insert Size:	1100 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_012240.1</u> , <u>NP_036372.1</u>
RefSeq Size:	1174 bp
RefSeq ORF:	945 bp
Locus ID:	23409
UniProt ID:	<u>Q9Y6E7</u>
Cytogenetics:	12q24.23-q24.31
Domains:	SIR2

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 IV of the sirtuin family. [provided by RefSeq, Jul 2008]