

Product datasheet for **SC320624**

SIRT3 (NM_012239) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT3 (NM_012239) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT3
Synonyms:	SIR2L3
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_012239 edited
 CTCGGACTGCGCGGAACATGGCGTTCTGGGGTTGGCGCGCCGCGGCAGCCCTCCGGCTGT
 GGGGCCGGGTAGTTGAACGGGTCGAGGCCGGGGGAGGCGTGGGGCCGTTTCAGGCCTGCG
 GCTGTCGGCTGGTGTCTGGCGGCAGGGACGATGTGAGTGCGGGGCTGAGAGGCAGCCATG
 GGGCCCGCGGTGAGCCCTTGACCCGGCGCGCCCTTGCAGAGGCCTCCCAGACCCGAGG
 TGCCACAGGGCATTCCGGAGGCAGCCGAGGGCAGCAGCTCCCAGTTTCTTTTCGAGTA
 TTAAAGGTGAAGAAGGTCATATCTTTTTCTGTGGGTGCTTCAAGTGTGTTGGAAGTG
 GAGGCAGCAGTGACAAGGGGAAGCTTTCCCTGCAGGATGTAGCTGAGCTGATTCGGGCCA
 GAGCCTGCCAGAGGGTGGTGGTCAATGGTGGGGCCGGCATCAGCACACCCAGTGGCATT
 CAGACTTCAGATCGCCGGGGAGTGGCCTGTACAGCAACCTCCAGCAGTACGATCTCCCGT
 ACCCCGAGGCCATTTTTGAACTCCATTCTTTTACAACCCCAAGCCCTTTTTCACTT
 TGGCCAAGGAGCTGTACCCTGGAAGTACAAGCCCAACGTCACACTACTTTTCTCCGGC
 TGCTTCATGACAAGGGGCTGCTTCTGCGGCTCTACACGCAGAACATCGATGGGCTTGAGA
 GAGTGTGGGCATCCCTGCCTCAAAGCTGGTTGAAGCTCATGGAACCTTTGCCTTGCCA
 CCTGCACAGTCTGCCAAGACCCTTCCCAGGGGAGGACATTCGGGCTGACGTGATGGCAG
 ACAGGGTTCCTCCGCTGCCCGGTCTGCACCGGCGTTGTGAAGCCGACATTGTGTTCTTTG
 GGGAGCCGCTGCCCCAGAGGTTCTTGTGCATGTGGTTGATTTCCCCATGGCAGATCTGC
 TGCTCATCCTTGGGACCTCCCTGGAGGTGGAGCCTTTTGCAGCTTGACCGAGGCGGTGC
 GGAGCTCAGTTCCCGACTGCTCATCAACCGGGACTTGGTGGGGCCCTTGGCTTGGCATT
 CTCGCAGCAGGGACGTGGCCAGCTGGGGGACGTGGTTCACGGCGTGGAAAGCCTAGTGG
 AGCTTCTGGGCTGGACAGAAGAGATGCGGGACCTTGTGCAGCGGGAAACTGGGAAGCTTG
 ATGGACCAGACAAATAGGATGATGGCTGCCCCACACAATAAATGGTAACATAGGAGACA
 TCCACATCCCAATTCTGACAAGACCTCATGCCTGAAGACAGCTTGGGCAGGTGAAACCA
 AATATGTGAAGTGAAGTGGACACCCGAGGCTGCCACTGGAATGTCTTCTCAGGCCATGAGC
 TGCACTGACTGGTAGGGCTGTGTTACAGTCAGGGCCACCCCGTACATATACAAAGGAG
 CTGCCTGCCTGTTGCTGTGTTGAACTCTTCACTCTGCTGAAGCTCCTAATGGAAAAAGC
 TTTCTTCTGACTGTGACCCTCTTGAAGTGAATCAGACCAACTGGAATCCCAGACCGAGTC
 TGCTTTCTGTGCCTAGTTGAACGGCAAGCTCGGCATCTGTTGGTTACAAGATCCAGACTT
 GGGCCGAGCGGTCCCAGCCCTTTCATGTTCCGAAGTGTAGTCTTGAGGCCCTGGTGCC
 GCACTTCTAGCATGTTGGTCTCCTTTAGTGGGGCTATTTTTAATGAGAGAAAATCTGTTC
 TTTCCAGCATGAAATACATTTAGTCTCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_012239
- Insert Size:** 1800 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 insert of this clone has been fully sequenced and found to be a perfect match to NM_012239.4.
- 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: [NM_012239.4](#), [NP_036371.1](#)

RefSeq Size: 2900 bp

RefSeq ORF: 1200 bp

Locus ID: 23410

UniProt ID: [Q9NTG7](#)

Cytogenetics: 11p15.5

Domains: SIR2

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: SIRT3 encodes a member of the sirtuin family of class III histone deacetylases, homologs to the yeast Sir2 protein. The encoded protein is found exclusively in mitochondria, where it can eliminate reactive oxygen species, inhibit apoptosis, and prevent the formation of cancer cells. SIRT3 has far-reaching effects on nuclear gene expression, cancer, cardiovascular disease, neuroprotection, aging, and metabolic control. [provided by RefSeq, May 2019]
Transcript Variant: This variant (1) encodes isoform a.