

Product datasheet for **SC319476**

SIRT2 (NM_030593) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT2 (NM_030593) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT2
Synonyms:	SIR2; SIR2L; SIR2L2
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_030593.1
 CGAAAGCGCTGCTGCGGCCGAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGG
 CCACTCCCATTCTGGTGCCGTACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCG
 GTGACGGGACACAGTGGTTGGTGACGGGACAGAGCGGTGACAGCCTCAAGGGCTTC
 AGCACCCGCCCCATGGCAGAGCCAGACCGACTCAGATTGAGACTCTGAGGGAGGAGCCG
 TGGTGGAGAAGCAGACATGGACTTCCTGCGGAATTATTCTCCCAGACGCTCAGCCTGGG
 CAGCCAGAAGGACGCTGTCGAGAGTCATCTGTTGGTGGGAGCTGGAATCTCCACATCCG
 CAGG
 CATCCCCGACTTTCGCTCTCCATCCACCGCCTCTATGACAACCTAGAGAAGTACCATCT
 TCCCTACCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCTTCTT
 CGCCCTCGCCAAGGAACCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT
 GCGCCTGTGAAGGACAAGGGGCTACTCCTGCGCTGTACACGCAGAACATAGATACCCT
 GGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGGTGGAGGCGCACGGCACCTTCTACAC
 ATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGATGAAAGAGAA
 GATCTTCTCTGAGGTGACGCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATAT
 CGTCTTTTTTGGTGAGAGCCTCCAGCGGTTTCTTCTCCTGTATGCAGTCAGACTTCT
 GAAGGTGGACCTCCTCCTGGTACCTGCGTACCTCCTGAGGTGCAGCCCTTTGCCTCCCT
 CATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAAGCTGGCCA
 GTCGGACCTTTCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACTTTGACTCCAA
 GAAGGCCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTG
 TGAGCTCCTTGGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCAT
 AGATGCCAGTCGGGGGGGGGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTC
 CCCGCCACTGCCAAGGACGAGGCCAGGACAACAGAGAGGGAGAAAACCCAGTGACAGCT
 GCATCTCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCAACCGGGCCTGGC
 CCCCTTTAACAGCAGTCTTGTCTGGGGAGCTCAGAACATCCCCAATCTTTACAGC
 TCCCTCCCCAAAACCTGGGGTCCCAGCAACCCTGGCCCCAACCCAGCAAATCTTAACA
 CCTCTAGAGGCCAAGGCTTAACAGGCATCTCTACCAGCCCACTGTCTTAACCACTC
 CTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTGCCCCACGGGGCCAGGGCTACCCCA
 GAACTTTAACTTTCCAGGACAGGGAGCTTCGGGCCCACTCTGTCTCCTGCCCCGG
 GGGCCTGTGGCTAAGTAAACCATACCTAACCTACCCAGTGTGGGTGTGGCCTCTGAAT
 ATAACCCACCCAGCGTAGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
 AGCTCCCAAAGTGGGTGGTGGGCCCTTACAGTGGGACCCACTTCCCATGCTGGATGGG
 CAGAAGACATTGCTTATTGGAGCAAATTAATAAACAACCAACTAACAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_030593

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: 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:

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_030593.1](#), [NP_085096.1](#)

RefSeq Size: 1931 bp

RefSeq ORF: 1059 bp

Locus ID: 22933

UniProt ID: [Q8IXJ6](#)

Cytogenetics: 19q13.2

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 I of the sirtuin family. Several transcript variants are resulted from alternative splicing of this gene. [provided by RefSeq, Jul 2010]
Transcript Variant: This variant (2) lacks an exon in the 5' region, resulting in a downstream in-frame AUG start codon, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, as compared to isoform 1.