

## Product datasheet for SC107915

### SIRT2 (NM\_012237) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SIRT2 (NM_012237) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIRT2
Synonyms:	SIR2; SIR2L; SIR2L2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107915 sequence for NM_012237 edited (data generated by NextGen Sequencing)

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ATGGCAGAGCCAGACCCCTCTCACCTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCT
CAGGACTCAGATTCAGACTCTGAGGGAGAGCCGCTGGTGGAGAAGCAGACATGGACTTC
CTGCGGAACCTTATTCTCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGCTGGAC
GAGCTGACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTCCGAGAGTCATC
TGTTTGGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCC
ACCGGCCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAG
ATCAGCTATTTCAAGAAACATCCGGAACCCTTCTCGCCCTCGCCAAGGAACTCTATCCT
GGGCAGTTCAAGCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGGGGCTA
CTCCTGCGCTGTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAG
GAGGACTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGC
CGGCACGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCAAG
TGTGAAGACTGTGAGAGCCTGGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCCA
GCGCGTTTTCTTCTCCTGTATGCAGTCAGACTTCTGAAGTGGACCTCCTCCTGGTCATG
GGTACCTCCTTGAGGTGCAGCCCTTGCCTCCCTCATCAGCAAGGCACCCCTCTCCACC
CCTCGCCTGTCTATCAACAAGGAGAAAGCTGGCCAGTCGACCCCTTCTGGGGATGATT
ATGGGCCCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGG
CTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGTGAGCTCCTTGATGGAAGAAGGAG
CTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGCGGGGGTC
CCCAACCCAGCACTTCACTTCCCCCAAGAAGTCCCGCCACCTGCCAAGGACGAGGCC
AGGACAACAGAGAGGGAGAAACCCAGTGA

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Clone variation with respect to NM\_012237.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_012237 unedited  GCTTTTGTATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGGGACACAGTGG  TTGGTGACGGGACAGAGCGGTCCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGC  AGAGCCAGACCCCTCTCACCCCTGAGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGA  CTCAGATTCAGACTCTGAGGGAGGAGCCGCTGGTGGAGAAGCAGACATGGACTTCCTGCG  GAACTTATTCTCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGCTGGACGAGCT  GACCTTGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTT  GGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTTCGCTCTCCATCCACCGG  CCTCTATGACAACTAGAGAAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAG  CTATTTCAAGAAACATCCGGAACCTTCTTCGCCCTCGCCAAGGAACTCTATCCTGGGCA  GTTCAAGCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGGGGCTACTCCT  GCGCTGTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGA  CTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA  CGAATACCCCGCTAGCTGGATGAAAGNAGAAGATCTCTCTGAGGTGACGCCCAGTGTGAA  GACTGTACAGACCTGGTGAAGCTGATATCGTCTTTTTGGTGGAGAGCCTCCAGCGGTTNC  TTCTCCTGGATGCAGTCAGACTCCCTGGAGGGGACCTCTNCTGGNCATGGNTACCTCCC  TTGCAGGGCAGCCCTTTCCTCCT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_012237 unedited  GCCTTTGAGAGTCGAGTTTTTCCCTTTTTTTTTAGCTGTTTTTGTTTTTAATTTGTCTC  CAATAAGCAATGTCTTCTGCCCATCCAGCATGGGAAGTGGGTCCCACGTGAAGGGGGCCC  ACCACCCACTTTGGGAGCTGAAGGCAGAGACTCGGGAGCCCTCCCGGCTCAGACTCCCC  TACGCTGGGTGTGGTTATATTCATAGGCCACACCCACACTGGGGTAGGCTAGGTATGG  TTTACTTAGCCACAGGCCCCCGGGGCAGGAGACAGAGTGGGGGCCGAAGCTCCCTGTC  CTGGAAGAGTTAAAAGTTCTGGGGTAGCCCTGGCCCCGTGGGGGCAAGTTAGAGATGAGGG  AGGTTACTCCTTAGCCCAGGAGTGGTTAGAGACAGCGGGGCTGGTAGAGATGCCTGTTTA  AGCCTTGGCCTTAGGAGGTGCCAGAGATTTGCTGGGGTGGGGGCCAGGGTTGCTGGGA  CCCCAGTTTTGGGGAGGGAGCTGTAAGAGATTGGGGGATGTTCTGAGCTCCCCAGACAAG  AACTGTGTTAAGAGGGGGCCAGGCCCGTTGGCGCTCAGCTGTCCCTGAGGAGCTCGA  TATACCGCCTGGGAGATGCAGCTGCCACTGCCGTCTCTACCTCTCTGTTGAACTGCCCT  TCGACCTGGCAGCGCGCCGGACTCTCTTGGGGGAAGCTGAAGTGTGGGGTTCGGGGAC  CTCGCCCCGAATGGGCCTCTATGCTGGCGGGCTACCCTCGGACCAGGGTCCCGCAGCTA  CCTTCTCCCTCCAAGCGATTCCACCAGGCCAGGTCTTCTGGCTTCATTACCCCTTCGC  CTCCGCCCGTAGGCCTCTTGGGTCCAACCGCTTCTCCCTTTGGTCTTATCCTCCTT  TCAAGGCCTTCCCGCGCCCTTCTTTCTCCCGATCACCCGTTTCCCCAGCCCGCCCCG  CATCCCCATCTTCGCTCCCCACGCCCTCCCTCGCGCTTCCGCTCCCCCCCCGTTN</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_012237
<b>Insert Size:</b>	1850 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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\\_012237.2](#), [NP\\_036369.2](#)

**RefSeq Size:** 1963 bp

**RefSeq ORF:** 1170 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 (1) is the longest transcript and encodes the longest isoform (1).