*h*Sirtuin 1/SIRT1 VersaClone cDNA

Catalog Number: RDC3571

Specifications:

Gene:	*h*SIRT1
Accession:	NP_036370.2
Insert size:	2257bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

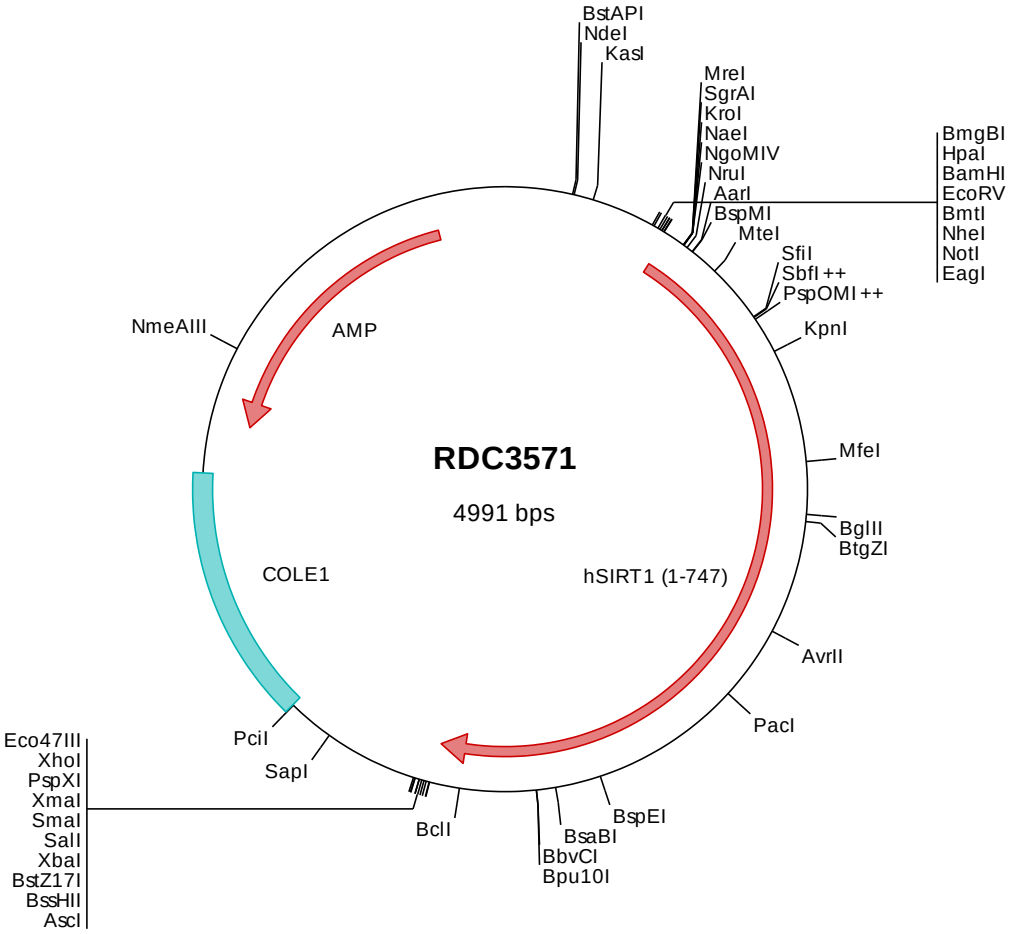
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Sirtuin 1/SIRT1 cDNA Plasmid

SIRT1 sirtuin 1 [*Homo sapiens* (human)]

Also known as: SIR2; SIR2L1; SIR2alpha

Summary:
SIRT1 is 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. SIRT1 is included in class I of the sirtuin family. Alternative splicing results in multiple transcript variants.



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NOT FOR USE IN HUMANS

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R&D SYSTEMS

> RDC3571 Plasmid DNA Sequence

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 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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 501  cgccggcgca gatcgcgaag ctgcctcatc acctgctggc gaacctttga ggaaacgccc tcgcagggac ggacctggac ttgaaaggag tcctgggaa
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3001  ctcgctcact gactcgctgc gctcggtcgt tcggctgcgg cgagcggtat cagctcactc aaaggcggta atacggttat ccacagaatc aggggataac
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> RDC3571 Translated Insert Sequence

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