

Specifications:

Gene:	<i>hSIRT2</i>
Accession:	NP_036369.2
Insert size:	1183bp
Concentration:	10µg at 0.2µg/µL

hSirtuin 2/SIRT2 cDNA Plasmid

SIRT2 sirtuin 2 [*Homo sapiens* (human)]

Also known as: SIR2; SIR2L; SIR2L2

Summary:

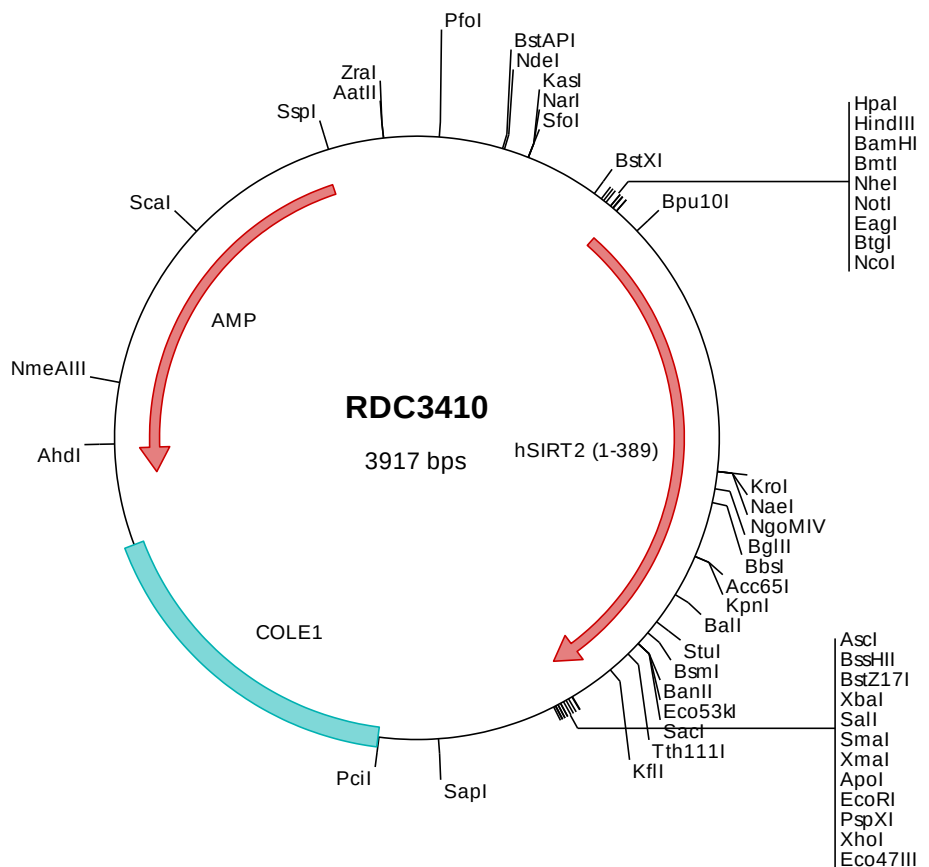
SIRT2 is a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate 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. SIRT2 is included in the class I of the sirtuin family. Alternatively spliced transcripts encoding different proteins have been described.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3410 Plasmid DNA Sequence

```

1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagttaggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atggcagagc cagacccctc tcaccctctg gagaccagc cagggaggt
501  gcaggaggtc caggactcag attcagactc tgaggaggga gccgtctgtg gagaagcaga catggacttc ctggggaact tattctccca gacgtcagc
601  ctgggcagcc agaaggagcg tctgtgggac gagctgacct tggaagggtg ggcccggtac atgcagagcg aacgtctgct cagagtcatc tgtttggttg
701  gagctgggaat ctccacatcc gcaggcatcc cgcactttcg ctctccatcc accggctctc atgacaacct agagaagtac catcttccct accagaggc
801  catcttttag atcagctatt tcaagaaaca tcggaaacct ttcttcgccc tcgccaagga actctatcct gggcagtcca agccaacct ctgtcactac
901  ttcatgcgcc tgctgaagga caaggggcta ctctcgtcgt gtcacacgca gaacatagat accctggagc gaatagccgg gctggaacag gaggacttgg
1001 ttggaggcgca cggcactctt tacacatcac actgcgtcag cggcagctgc cggcacgaat accgcctaag ctggatgaaa gagaagatct tctctgaggt
1101 gacgcccacg tgtagaagct gtcagagcct ggtgaagcct gatatcgtct tttttggtga gagcctccca gcgcgtttct tctcctgtat gcagtacagc
1201 ttctctgaag tggaacctct cctggtctat ggtacacct tgacagtgca gccctttgct tcctctcatc gcaaggcacc cctctccacc cctcgcctgc
1301 tcataaccaa ggagaaagct ggaagctcgg accctttcct ggggatgatt atgggctcgt gagggagcat ggactttgac tcgaagaagg cctacaggga
1401 cgtggcctgg ctgggtgaat gcgaccagg ctgcctggcc cttgcctgagc tccttggtatg gaagaaggag ctggaggacc ttgtccggag ggagcacgcc
1501 agcatagatg ccagctcggg ggcgggggtc cccaacccca gcacttcagc ttcccccaag aagtcctcgc cacctgcca ggacgaggcc aggacaacag
1601 agaggggaaa acccagtaaa aggcgcgcc gtatactcta gagtcgacac ccggggaatt cctcgagcgc tcgtctctag cttggcgtaa tcattggtcat
1701 agctgtttcc tggtgtgaat tggtatccgc tcacaattcc acacaacata cagccggaa gcataaagt taaaagcctg ggtgccta gagtgagcta
1801 actcacatta attgcgttgc gcctactgcc cgtttccag tcgggaaccc tgctgtgcca gctgcattaa tgaatcgcc aacgcgcggg gagaggcggg
1901 ttgcgtattg ggcgactctt cgtctcctcg ctcactgact cgtcgtcctc ggtcgttccg ctgcggcgag cggtatcagc tcactcaaa gcggtaatac
2001 ggttatccac agaatcagg gataacgcag gaaagaacat gtgagcaaaa ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc tgccgttttt
2101 ccataggtct cgccccctg acgagcatca caaaaaatca cgctcaagtc agaggtggcg aaacccgaca ggactataaa gataccaggc gtttccccct
2201 ggaagctccc tcgtgcgtct tcctgttccg accctgcgcg ttaccggata ccctgtccgc ttctctccct cgggaaagcg ggcgctttct caatgctcac
2301 gctgtaggtg tctcagttcg gtgtaggtcg ttcgtcccaa gctgggtcgt gtgcacgaac cccccgttca gcccagaccg tcgcctttat ccggtacaata
2401 tcgtcttgag tcgaaccggg taagacacga cttatcgcca ctggcagcag ccactggtaa caggattagc agagcgaggt atgtaggcgg tgctacagag
2501 ttcttgaaat gggtggcctaa ctacggctac actagaagga cagtatttgg tatctgcgct ctgctgaagc cagttacctt cggaaaaaag gttggttagct
2601 ctttgatccg caaaacaaac accgctggta gcggtgggtt ttttgtttgc aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat
2701 cttttctgag gggtctgacg ctcagtggaa cgaaaactca cgtttagtca ttttggtcat gagattatca aaaaggatct tcacctagat ccttttaaat
2801 taaaaatgaa gttttaaatc aatctaaaat atatatgagt aaacttggtc tgacagttac caatgcttaa tcagttaggc acctatctca gcgatctgtc
2901 tatttctgtc atccatagtt gcctgactcc ccgtcgtgta gataactacg atacgggag gcttaccatc tgccccag gctgcaatga taccgcgaga
3001 cccacgtcca ccggtctcag atttatcagc aataaaccag ccagccggaa ggccgagcgc cagaagtggg cctgcaactt tatccgcctc catccagctc
3101 attaattggt gccgggaagc tagagtaagt agttcgccag ttaatagttt goccaacggt gttgccattg ctacaggcat cgtgggtgtc cgctcgtcgt
3201 ttggtatggc ttcattcagc tcgggttccc aacgatcaag gcgagttaca tgatccccc tggtgtgcaa aaaagcggtt agctccttgc gtcctccgat
3301 cgttgtcaga agtaagtgtg cgcagtggtt atoactcatg gttatggcag cactgcataa ttctcttact gtcatgccat ccgtaagatg cttttctgtg
3401 actggtgagt actcaaccaa gtcattctga gaatagtgtg tgccggcgacc gagttgtctc tgcccgcgct caatacggga taataccgcg ccacatagca
3501 gaactttaaa agtgctcatc attggaanaac gttcttcggg gcgaaaactc tcaaggaatc taccgctgtt gagatccagt tcgatgtaac ccactcgtgc
3601 acccaactga tcttcagcat cttttacttt caccagcggt tctgggtgag caaaaacagg aaggcaaaat gcccgaataa aggggaataa ggcgacacgg
3701 aaatgttgaa tactcatact cttccctttt caatattatt gaagcattta tcagggttat tgtctcatga gcggatacat atttgaatgt atttagaaaa
3801 ataaacaat aggggttccc cgcacatttc ccgaaaagt gccacctgac gtctaagaaa ccattattat catgacatta acctataaaa ataggcgat
3901 cacgaggccc tttcgtc

```

> RDC3410 Translated Insert Sequence

```

1   maepdpshpl etqagkvqea qdsdsdsegg aaggeadmdf lnlfssqtls lgsqkerlld eltlegvary msercrrvi clvgagists agipdfsrps
101  tglydnleky hlpypeaife isyfkhhpep ffalakelyp gqfkptichy fmrlldkdkgl llrcytqnid tleriagleq edlveahgtf ytshcvssasc
201  rheyplswmk ekifsevtpk cedcqlsvkp divffgeslp arffscmqsd flkvdlllvm gtslqvqpf a sliskaplst prllinkeka ggsdpflgmi
301  mglgggmfd skkayrdvaw lgecdqgcla laellgwkke ledlvrrhea sidaqsgagv pnpstaspk kspppakdea rtterekpq

```