

SIRT2 cDNA

Catalog Number: ATGD0041

PRODUCT INFORMATION

Catalog number

ATGD0041

Product type

cDNA

Species

Human

NCBI Accession No.

NP_085096.1

Alternative Names

Sirtuin 2, Sirtuin (silent mating type information regulation 2, *S.cerevisiae*, homolog) 2, SIR2L, NAD-dependent deacetylase sirtuin-2, SIR2, SIR2L2

mRNA Refseq

NM_030593.2

OMIM

604480

Chromosome location

19q13

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

1059bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

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General Description

SIRT2 (NAD-dependent deacetylase sirtuin-2) 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 and are involved in diverse processes, including transcriptional regulation, cell cycle progression, DNA-damage repair and aging. SIRT2 is a NAD-dependent deacetylase, which deacetylates the 'Lys-40' of alpha-tubulin.

DATA

Sequence nucleotides

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ATGGACTTCC TGCGGAACCTT ATTCTCCCAG ACGCTCAGCC TGGGCAGCCA GAAGGAGCGT CTGCTGGACG
AGCTGACCTT GGAAGGGGTG GCCCGGTACA TGCAGAGCGA ACGCTGTCGC AGAGTCATCT GTTTGGTGGG
AGCTGGAATC TCCACATCCG CAGGCATCCC CGACTTTCGC TCTCCATCCA CCGGCCTCTA TGACAACTA
GAGAAGTACC ATCTTCCCTA CCCAGAGGCC ATCTTTGAGA TCAGCTATTT CAAGAAACAT CCGGAACCCT
TCTTCGCCCT CGCCAAGGAA CTCTATCCTG GGCAGTTCAA GCCAACCATC TGTCCTACT TCATGCGCCT
GCTGAAGGAC AAGGGGCTAC TCCTGCGCTG CTACACGCAG AACATAGATA CCCTGGAGCG AATAGCCGGG
CTGGAACAGG AGGACTTGGT GGAGGCGCAC GGCACCTTCT ACACATCACA CTGCGTCAGC GCCAGCTGCC
GGCACGAATA CCCGCTAAGC TGGATGAAAG AGAAGATCTT CTCTGAGGTG ACGCCCAAGT GTGAAGACTG
TCAGAGCCTG GTGAAGCCTG ATATCGTCTT TTTTGGTGAG AGCCTCCCAG CGCGTTTCTT CTCCTGTATG
CAGTCAGACT TCCTGAAGGT GGACCTCCTC CTGGTCATGG GTACCTCCTT GCAGGTGCAG CCCTTTCCTT
CCCTCATCAG CAAGGCACCC CTCTCCACCC CTCGCCTGCT CATCAACAAG GAGAAAGCTG GCCAGTCGGA
CCCTTTCCTG GGGATGATTA TGGGCCTCGG AGGAGGCATG GACTTTGACT CCAAGAAGGC CTACAGGGAC
GTGGCCTGGC TGGGTGAATG CGACCAGGGC TGCCTGGCCC TTGCTGAGCT CCTTGATGG AAGAAGGAGC
TGGAGGACCT TGTCGGGAGG GAGCACGCCA GCATAGATGC CCAGTCGGGG GCGGGGGTCC CCAACCCAG
CACTTCAGCT TCCCCAAGA AGTCCCCGCC ACCTGCCAAG GACGAGGCCA GGACAACAGA GAGGGAGAAA
CCCCAGTGA
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Transaction Sequence

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MDFLRNLF SQ TSLG SQKER LDEL TLEGV ARYMQSER CR RVICLVGAGI STSAGIPDFR SPSTGLYDNL EKYHLPYPEA
IFEISYFKKH PEPFFALAKE LYPGQFKPTI CHYFMRLKLD KGLLLRCYTQ NIDTLERIAG LEQEDLVEAH GTFYTSHCVS
ASCRHEYPLS WMKEKIFSEV TPKCEDCQSL VKPDIVFFGE SLPARFFSCM QSDFLKVDLL LVMGTSLQVQ PFASLISKAP
LSTPRLLINK EKAGQSDPFL GMIMGLGGGM DFDSKKAYRD VAWLGECDQG CLALAE LLGW KKELEDLVRR EHASIDAQSG
AGVNPSTSA SPKSPPPAK DEARTTEREK PQ
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