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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

ATGGACTTCC TGCGGAACTT ATTCTCCCAG ACGCTCAGCC TGGGCAGCCA GAAGGAGCGT CTGCTGGACG
AGCTGACCTT GGAAGGGGTG GCCCGGTACA TGCAGAGCGA ACGCTGTCGC AGAGTCATCT GTTTGGTGGG
AGCTGGAATC TCCACATCCG CAGGCATCCC CGACTTTCGC TCTCCATCCA CCGGCCTCTA TGACAACCTA
GAGAAGTACC ATCTTCCCTA CCCAGAGGCC ATCTTTGAGA TCAGCTATTT CAAGAAACAT CCGGAACCCT
TCTTCGCCCT CGCCAAGGAA CTCTATCCTG GGCAGTTCAA GCCAACCATC TGTCACTACT 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 CCCTTTGCCT
CCCTCATCAG CAAGGCACCC CTCTCCACCC CTCGCCTGCT CATCAACAAG GAGAAAGCTG GCCAGTCGGA
CCCTTTCCTG GGGATGATTA TGGGCCTCGG AGGAGGCATG GACTTTGACT CCAAGAAGGC CTACAGGGAC
GTGGCCTGGC TGGGTGAATG CGACCAGGGC TGCCTGGCCC TTGCTGAGCT CCTTGGATGG AAGAAGGAGC
TGGAGGACCT TGTCCGGAGG GAGCACGCCA GCATAGATGC CCAGTCGGGG GCGGGGGTCC CCAACCCCAG
CACTTCAGCT TCCCCCAAGA AGTCCCCGCC ACCTGCCAAG GACGAGGCCA GGACAACAGA GAGGGAGAAA
CCCCAGTGA

Transaction Sequence

MDFLRNLFSQ TLSLGSQKER LLDELTLEGV ARYMQSERCR RVICLVGAGI STSAGIPDFR SPSTGLYDNL EKYHLPYPEA
IFEISYFKKH PEPFFALAKE LYPGQFKPTI CHYFMRLLKD KGLLLRCYTQ NIDTLERIAG LEQEDLVEAH GTFYTSHCVS
ASCRHEYPLS WMKEKIFSEV TPKCEDCQSL VKPDIVFFGE SLPARFFSCM QSDFLKVDLL LVMGTSLQVQ PFASLISKAP
LSTPRLLINK EKAGQSDPFL GMIMGLGGGM DFDSKKAYRD VAWLGECDQG CLALAELLGW KKELEDLVRR EHASIDAQSG
AGVPNPSTSA SPKKSPPPAK DEARTTEREK PQ