

SMNDC1 cDNA

Catalog Number: ATGD0191

PRODUCT INFORMATION

Catalog number

ATGD0191

Product type

cDNA

Species

Human

NCBI Accession No.

NP_005862.1

Alternative Names

SMNR, SPF30, TDRD16C

mRNA Refseq

NM_005871.3

OMIM

603519

Chromosome location

10q23

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

717bp

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 inserted 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)

General Description

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SMNDC1 is a paralog of SMN1 gene, which encodes the survival motor neuron protein, mutations in which are cause of autosomal recessive proximal spinal muscular atrophy. The protein encoded by this gene is a nuclear protein that has been identified as a constituent of the spliceosome complex. This gene is differentially expressed, with abundant levels in skeletal muscle, and may share similar cellular function as the SMN1 gene.

DATA

Sequence nucleotides

ATGTCAGAGGATTAGCAAAGCAGCTGGCAAGCTACAAAGCTCAGCTCCAGCAAGTTGAAGCTGCATTATCTGGAAATGGA
GAAAATGAAGATTGCTAAAATTGAAGAAAGATTACAAGAAGTTAGAACCAACCTCTGTCAACTCAACCTTC
TGAGACGCTTCAAGTTCAAGACAGTTGCTTCTACTCAACCTACTCATTGAAAGTAGGAGACAAGTGTATGGCAGTC
TGGAGTGAAGATGGACAGTGTTATGAAGCGGAGATTGAGGAGATAGATGAAGAAAATGGCACCGCTGCAATCACCTTGCT
GGTTATGGCAATGCTGAAGTGACTCCACTGTTAACCTCAAGCCTGAGAAGAAGGAAGGAAAGGAGACAGTGG
CAACAAACCCATGTCAAAAAAGAAATGATTGCCAGCAGCGTGAATATAAAAAGAAGAAAGCTTGAAAAAGCTCAGAGA
ATAAAAGAACATTGAGCAGGAAAGAGAGGACCAGAAAGTGAATGGCAACAATTCAACACAGAGCCTATTCTAAAACAAA
AAAGGCCAGGTAAAGAGGAGTATTTTGCTTCACCTGAGAGTGTGACTGGTAAAGTTGGAGTAGGAACCTGTGGAATTGCT
GATAAACCTATGACACAATATCAAGATAACCTCTAAATACAATGTCAGGCATTGATGCCTCAATAA

Transaction Sequence

MSEDLAKQLA SYKAQLQQVE AALSGNGENE DLLKLKKDLQ EVIELTKDLL STQPSETLAS SDSFASTQPT HSWKVGDKCM
AVWSEDGQCY EAEIEEIDEE NGTAITFAG YGNAEVTPLL NLKPVEEGRK AKEDSGNKPM SKKEMIAQQR EYKKKKALKK
AQRIKELEQE REDQKVWKQQ FNNRAYSKNK KGQVKRSIFA SPESVTGKVG VGT CGIADKP MTQYQDTSKY NVRHLMPQ