

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 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)

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

```
ATGTCAGAGGATTTAGCAAAGCAGCTGGCAAGCTACAAAGCTCAGCTCCAGCAAGTTGAAGCTGCATTATCTGGAAATGGA  
GAAAATGAAGATTTGCTAAAATTGAAGAAAGATTTACAAGAAGTTATAGAACTAACCAAAGACCTTCTGTCAACTCAACCTTC  
TGAGACGCTTGCAAGTTCAGACAGTTTTGCTTCTACTCAACCTACTCATTTCATGGAAAGTAGGAGACAAGTGTATGGCAGTC  
TGGAGTGAAGATGGACAGTGTATGAAGCGGAGATTGAGGAGATAGATGAAGAAAATGGCACCGCTGCAATCACCTTTGCT  
GGTTATGGCAATGCTGAAGTGACTCCACTGTTGAACCTCAAGCCTGTAGAAGAAGGAAGGAAGGCAAAGGAGGACAGTGG  
CAACAAACCCATGTCAAAAAAAGAAATGATTGCCAGCAGCGTGAATATAAAAAGAAGAAAGCTTTGAAAAAAGCTCAGAGA  
ATAAAAAGAACTTGAGCAGGAAAGAGAGGACCAGAAAGTGAAATGGCAACAATTCAACAACAGAGCCTATTCTAAAAACAAA  
AAAGGCCAGGTAAAGAGGAGTATTTTTGCTTACCTGAGAGTGTGACTGGTAAAGTTGGAGTAGGAACCTGTGGAATTGCT  
GATAAACCTATGACACAATATCAAGATACCTCTAAATACAATGTCAGGCATTTGATGCCTCAATAA
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Transaction Sequence

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MSEDLAKQLA SYKAQLQQVE AALSGNGENE DLLKLLKDLQ EVIELTKDLL STQPSETLAS SDSFASTQPT HSWKVGDKCM  
AVWSEDGQCY EAEIEEIDEE NGTAAITFAG YGNAEVTPLL NLKPVEEGRK AKEDSGNKPM SKKEMIAQQR EYKKKKALKK  
AQRILEQE REDQKVKWQQ FNNRAYSKNK KGQVKRSIFA SPESVTGKVG VGTCGIADKP MTQYQDTSKY NVRHLMPQ
```