SMNDC1 cDNA Clone – Survival of Motor Neuron-Related-Splicing Factor 30

PRODUCT OVERVIEW

Product Name	SMNDC1, cDNA Clone
Full Product Name	SMNDC1
Product Gene Name	SMNDC1 cdna clone
Product Synonym Names	SMNR; SPF30; TDRD16C
Sequence	Nucleotide Sequence: ATGTCAGAGG ATTTAGCAAA GCAGCTGGCA AGCTACAAAG CTCAGCTCCA GCAAGTTGAA GCTGCATTAT CTGGAAATGG AGAAAATGAA GATTTGCTAA AATTGAAGAA AGATTTACAA GAAGTTATAG AACTAACCAA AGACCTTCTG TCAACTCAAC CTTCTGAGAC GCTTGCAAGT TCAGACAGTT TTGCTTCTAC TCAACCTACT CATTCATGGA AAGTAGGAGA CAAGTGTATG GCAGTCTGGA GTGAAGATGG ACAGTGTTAT GAAGCGGAGA TTGAGGAGAT AGATGAAGAA AATGGCACCG CTGCAATCAC CTTTGCTGGT TATGGCAATG CTGAAGTGAC TCCACTGTTG AACCTCAAGC CTGTAGAAGA AGGAAGGAAG GCAAAGGAGG ACAGTGGCAA CAAACCCATG TCAAAAAAAG AAATGATTGC CCAGCAGCGT GAATATAAAA AGAAGAAAGC TTTGAAAAAA GCTCAGAGAA TAAAAGAACT TGAGCAGGAA AGAGAGGACC AGAAAGTGAA ATGGCAACAA TTCAACAACA GAGCCTATTC TAAAAACAAA AAAGGCCAGG TAAAGAGGAG TATTTTTGCT TCACCTGAGA GTGTGACTGG TAAAGTTGGA GTAGGAACCT GTGGAATTGC TGATAAACCT ATGACACAAT ATCAAGATAC CTCTAAATAC AATGTCAGGC ATTTGATGCC TCAATAA Trans lation Sequence: MSEDLAKQLA SYKAQLQQVE AALSGNGENE DLLKLKKDLQ EVIELTKDLL STQPSETLAS SDSFASTQPT HSWKVGDKCM AVWSEDGQCY EAEIEEIDEE NGTAAITFAG YGNAEVTPLL NLKPVEEGRK AKEDSGNKPM SKKEMIAQQR EYKKKKALKK AQRIKELEQE REDQKVKWQQ FNNRAYSKNK KGQVKRSIFA SPESVTGKVG VGTCGIADKP MTQYQDTSKY NVRHLMPQ
Form/Format	Lyophilized
Preparation and Storage	Store the plasmid at -20 degree C.
OMIM	603519
3D Structure	ModBase 3D Structure for O75940
Species	Human
Chromosome Location	10q23
OMIM Reference Number	603519
cDNA Size	717bp
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.
Vector	(puc19-derived cloning vector)
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.
Product Categories/Family for SMNDC1 cdna clone	Apoptosis; Cell Cycle
Related Product Information for SMNDC1 cdna clone	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.

Other Notes	Small volumes of SMNDC1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SMNDC1 purchase	MBS200706 is a cDNA clone targeting SMNDC1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMNDC1. It may not necessarily be applicable to this product.

NCBI GI #	5032113
NCBI GeneID	10285
NCBI Accession #	NP_005862.1
UniProt Primary Accession #	O75940
UniProt Related Accession #	O75940
GenBank Nucleotide #	NM_005871.3
NCBI Official Full Name	survival of motor neuron-related-splicing factor 30
NCBI Official Synonym Full Names	survival motor neuron domain containing 1
NCBI Official Symbol	SMNDC1
NCBI Official Synonym Symbols	SMNR; SPF30; TDRD16C
UniProt Protein Name	Survival of motor neuron-related-splicing factor 30
UniProt Synonym Protein Names	30 kDa splicing factor SMNrp; SMN-related protein; Survival motor neuron domain-containing protein 1
Protein Family	Survival of motor neuron-related-splicing factor
UniProt Gene Name	SMNDC1
UniProt Synonym Gene Names	SMNR; SPF30
UniProt Entry Name	SPF30_HUMAN
NCBI Protein Information	survival of motor neuron-related-splicing factor 30
NCBI Summary for SMNDC1	This gene 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. [provided by RefSeq, Jul 2008]
UniProt Comments for SMNDC1	SPF30: Necessary for spliceosome assembly. Overexpression causes apoptosis. Belongs to the SMN family. Protein type: Spliceosome; RNA processing; RNA splicing; RNA-binding Chromosomal Location of Human Ortholog: 10q23 Cellular Component: nucleoplasm; spliceosome; Cajal body; intermediate filament cytoskeleton; cytoplasm; nuclear speck; nucleus Molecular Function: protein binding Biological Process: RNA splicing, via transesterification reactions; apoptosis; RNA splicing; spliceosome assembly; mRNA processing
Research Articles on SMNDC1	**1.** The results show that SMNDC1 mRNA 5'-UTR forms an intramolecular, parallel G quadruplex structure comprised of three G quartet planes, which is bound specifically by FMRP both in vitro and in mouse brain lysates.

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