

Product datasheet for **SC323733**

SMNDC1 (NM_005871) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMNDC1 (NM_005871) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMNDC1
Synonyms:	SMNR; SPF30; TDRD16C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005871.2
 CCTCCTCCAGTGCCCGCGTTCCTCCCTCCCGCCGACCGAGTTCTTCCTTT
 TCAGACCGGGTCGCTTGTGCTGCGTGGGATTTCTGCTACTGCTACTGCTGCTG
 TGCCACCGCCACTACCACTGGGCTCATTGCCCCGACCCCTCCCGCCGCCCCGCCCA
 GCCCCACACAAGATGTCAGAGGATTTAGCAAAGCAGCTGGCAAGCTACAAAGCTCAGTC
 CAGCAAGTTGAAGCTGCATTATCTGAAATGGAGAAAATGAAGATTTGCTAAAATTGAAG
 AAAGATTTACAAGAAGTTATAGAATAACCAAAGACCTTCTGTCAACTCAACCTTCTGAG
 ACGCTTGCAAGTTCAGACAGTTTTGCTTCTACTCAACCTACTCATTTCATGGAAAGTAGGA
 GACAAGTGTATGGCAGTCTGGAGTGAAGATGGACAGTGTATGAAGCGGAGATTGAGGAG
 ATAGATGAAGAAAATGGCACCGCTGCAATCACCTTTGCTGGTTATGGCAATGCTGAAGTG
 ACTCCACTGTTGAACCTCAAGCCTGTAGAAGAAGGAAGGCAAGGAGGACAGTGGC
 AACAAACCATGTCAAAAAAGAAATGATTGCCAGCAGCGTGAATATAAAAAAGAGAA
 GCTTTGAAAAAGCTCAGAGAATAAAAGAACTTGAGCAGGAAAGAGAGGACCAGAAAGTG
 AAATGGCAACAATTCAACAACAGAGCCTATTCTAAAAACAAAAAGGCCAGGTAAGAGG
 AGTATTTTGGCTTACCTGAGAGTGTGACTGGTAAAGTTGGAGTAGGAACCTGTGGAATT
 GCTGATAAACCTATGACACAATATCAAGATACCTCTAAATACAATGTCAGGCATTTGATG
 CCTCAATAATCAGAAAACTGTTGGATTTTCATCTCTGCAGGGCTTTACATTTACCTTTTT
 ATCCTTATATTTTCTAAAGTAAATATTTGTTAGATGAGTAAGCAAGATACCATTGTC
 GTCATTGGTTGGCTTCAGTAGAATGAAACGTGAAGAAATTGCATTTGATAACTGCTATTC
 ATTTAACTTTTCTCATTATCAGTACCACGGTCCCTCAAAGTTTGTGAAATAAGCAACT
 TTTGTAGATGCTGTTTCATACAGCACTTAGATGAATTATTGATCTTCTAATATCAGGCG
 CCTACTTAACCTATGGTGTGACTTTTTGTAAGTTGAACTTGAATTTTCAGATGCTTT
 GAAGTTGACACACTACTTAGCAATTCATTGGAACACCAAGGCAAAAAACCAACCTGCTA
 AAAGAGATCTTTTCATTTTCTTATTTTTCAGCTTTAAACTTAGCTGTCGTTTCAGTTAAG
 CTTAAAGATAGGTTAATTTGTAATGGCAAAGTTGTTTTGAGGTTTTCTCAATAACT
 TGTTTCCAGGCCTATTAGGCCATCTCTAAAATTGATCTAGCTGTTTTATTTTTATGTAC
 TCTTAGTTTTATGTAAGAACTTAGGATGAGCTCCCTTTTCTAAGGTGTTTTGTTTTT
 TGTATGTTTCTTTTTCTGTTTTTGTGTTTTTCCATTTACGGCAGTGGTACCATGTTT
 TGGATGTGTGATTTATATGGGAGAACAAAAAGCTGATGTATAGCCCTGTATACAGTGT
 AGATACTATTTTTGTA AAAACACAAGGCTAAATTAATGAACAAGAATACTGAATTTTCA
 TCATTA AAAATTTCTTGTATTTCTGTGCAATTAATCTGACGATAATTTCCCTGTATATTA
 TGTTCAATTTAGCTGTTTGTAAATTTTGTAAATAGATCAGGTTGTCTGCATTTGTTGGTG
 TAAGTGAACATCATCACAGTTATCCTGAGTTGAGTTAAGCCAAATACATGCATAGAAAA
 GGGTCTTCTATTAATGGAGAAGGTAATTTTAGGATGTGATTTATTCAGTTTTGTAT
 GTTTAACTTTTATTAATAAAGTGTTTTTAAAATCTC AAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_005871

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_005871.2 , NP_005862.1
RefSeq Size:	2033 bp
RefSeq ORF:	717 bp
Locus ID:	10285
UniProt ID:	O75940
Cytogenetics:	10q25.2
Domains:	TUDOR
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Spliceosome
Gene Summary:	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]