

Product datasheet for **SC116456**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116456 sequence for NM_005871 edited (data generated by NextGen Sequencing)

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ATGTCAGAGGATTTAGCAAAGCAGCTGGCAAGCTACAAAGCTCAGCTCCAGCAAGTTGAA
GCTGCATTATCTGGAAATGGAGAAAATGAAGATTGCTAAAATTGAAGAAAGATTTACAA
GAAGTTATAGAATAACCAAAGACCTTCTGTCAACTCAACCTTCTGAGACGCTTGCAAGT
TCAGACAGTTTTGCTTCTACTCAACCTACTCATTATGGAAGTAGGAGACAAGTGATG
GCAGTCTGGAGTGAAGATGGACAGTGTTATGAAGCGGAGATTGAGGAGATAGATGAAGAA
AATGGCACCGCTGCAATCACCTTTGCTGGTTATGGCAATGCTGAAGTGACTCCACTGTTG
AACCTCAAGCCTGTAGAAGAAGGAAGGAAGGCAAAGGAGGACAGTGGCAACAAACCCATG
TCAAAAAAAGAAATGATTGCCAGCAGCGTGAATATAAAAAAGAAGAAAGCTTTGAAAAAA
GCTCAGAGAATAAAAGAACTTGAGCAGGAAAGAGAGACCAGAAAGTGAATGGCAACAA
TTCAACAACAGAGCCTATTCTAAAAACAAAAAGGCCAGGTAAAGAGGAGTATTTTTGCT
TCACCTGAGAGTGTGACTGGTAAAGTTGGAGTAGGAACCTGTGGAATTGCTGATAAACCT
ATGACACAATATCAAGATACCTCTAAATACAATGTGAGGCATTTGATGCCTCAATAA
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Clone variation with respect to NM_005871.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005871 unedited</p> <pre>TTTTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGCCCTCCCCCTCGCCG CCGACCGAGTTCTTCTTTTCAGACCGGTCGCCTTGCTGTCGTGCGCGGTGATTTTCTG CTACTGCTACTGCTGCTGCCACCGCCACTACCACTGGGCTCATTTGCCCCGACCCCT TCCCGCCGCCCGCCCCAGCCCCACACAAGATGTCAGAGGATTTAGCAAAGCAGCTGGC AAGTACAAAAGCTCAGCTCCAGCAAGTTGAAGCTGCATTATCTGGAAATGGAGAAAATGA AGATTTGCTAAAATTGAAGAAAGATTTACAAGAAGTTATAGAACTAACCAAAGACCTTCT GTCAACTCAACCTTCTGAGACGCTTGCAAGTTCAGACAGTTTTGCTTCTACTCAACCTAC TCATTCATGGAAGTAGGAGACAAGTGTATGGCAGTCTGGAGTGAAGATGGACAGTGTTA TGAAGCGGAGATTGAGGAGATAGATGAAGAAAATGGCACCGCTGCAATCACCTTTGCTGG TTATGGCAATGCTGAAGTGACTCCACTGTTGAACCTCAAGCCTGTAAAAGAAGGAAGGAA GGCAAAGGAGGACAGTGGCAACAAACCCATGTCAAAAAAAGAAATGATTGCCAGCAGCG TGAATATAAAAAGAAGAAAGCTTTGAAAAAGCTCAGAGAATAAAAAGAACTTGAGCAGGA NAGAGAAGACCCAGAAGTAAATGGCAACATTCAACAACAGAGCCTATTCTAAAACANA AAAGCCAGGTAANAGAGAGTATTTTGTCTCACTGAGATGTGACTGGTAAAGTGAGTAGAA ACTGTGGAATGCTGATAACCTATGACACATATCAGA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005871 unedited</p> <pre>CGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTGGAGATTTTAAAAACACTTTAT TTAATAAAAGTTAAACATACAAAACGAAATAATACACATCCTAAAAATTACCTTCTTCC ATTAATAGGAAGACCCTTTTCTATGCATGTATTTGGCTTAAACTCAACTCAGGATAACTG TGATGATGTTCACTTACACCAACAAATGCAGACAACCTGATCTAATTAACAAAAATTACA AACAGCTAAATGAACATAATATACAGGAAATTATCGTCAGATTAATGCACAAGAAATAC AAGAAATTTTTAATGATGAAATATTCAGTATTCTTGTTTCAATTTAGCCTTGTGTTTT TACAAAAATAGTATCTCACTGTATACAGGGCTATACATCAGCTTTTTGTCTCCCATAT AAACATCACACATCCAAAACATGGTACCCTGCCGTAATGGAAAAAACAAAAACAGGA AAAAAGCAAACATACAAAAACAAAAACACCTTAGAAAAGGGAGCTCATCCTAAGGTTTC TTACATAAAACTAAGAGTACATAAAAAATAAACAGCTAGATCAATTTTAGAGATGGCCTA ATAGGCCTGGGAAACAAGTTATTGAGGAANAACCTCAAAACAACTTTGCCATTTACAAA TTAACCTATCTTTAAGCTTAACGAACGACAGCTAAGTTTTAAAGCTGAAATAAGAAAAA TGAANAGATCTCTTTAGCAGGTTGGTGTTTTTGCCTTTGGTGNCCAATGAATTGCTAG AGTATGTGTCAGTTCAAAGCATCTGAAAATTCAGTTACAACCTACAAAAAGTACACAC CATAGGTTAGTAGGCGCCTGATATANGAAGATCAATATCCATCTAGTGCTGNATGAACAC ATCTACAAAAGTGCTTTATCACANACTTTGAGGGACCGNGTACTGAATATGAGAAAAGTA ATGAAT</pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_005871
Insert Size:	2050 bp
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).
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:

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]