

## Product datasheet for **SC100917**

### **SOSTDC1 (NM\_015464) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SOSTDC1 (NM_015464) Human Untagged Clone
Tag:	Tag Free
Symbol:	SOSTDC1
Synonyms:	CDA019; DAND7; ECTODIN; USAG1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100917 sequence for NM_015464 edited (data generated by NextGen Sequencing)

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ATGCTTCCTCCTGCCATTCATTTCTATCTCCTTCCCCTTGCATGCATCCTAATGAAAAGC
TGTTTGGCTTTTAAAAATGATGCCACAGAAATCCTTTATTACATGTGGTTAAACCTGTT
CCAGCACACCCCAGCAGCAACAGCACGTTGAATCAAGCCAGAAATGGAGGCAGGCATTTCC
AGTAACACTGGACTGGATCGGAACACTCGGGTTCAAGTGGGTTGCCGGGAACTGCGTTCC
ACCAAATACATCTCTGATGGCCAGTGCACCAGCATCAGCCCTCTGAAGGAGCTGGTGTGT
GCTGGCGAGTGCTTGCCCTGCCAGTGCTCCCTAACTGGATTGGAGGAGGCTATGGAACA
AAGTACTGGAGCAGGAGGAGCTCCCAGGAGTGGCGGTGTGTCAATGACAAAACCCGTACC
CAGAGAATCCAGCTGCAGTGCCAAGATGGCAGCACACGCACCTACAAAATCACAGTAGTC
ACTGCCTGCAAGTCAAGAGGTACACCCGGCAGCACACGAGTCCAGTCACAACCTTTGAG
AGCATGTACCTGCCAAGCCAGTCCAGCATCACAGAGAGCGGAAAAGAGCCAGCAATCC
AGCAAGCACAGCATGAGTTAG
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Clone variation with respect to NM\_015464.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_015464 unedited GGGTTCCAATTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGGGAAANAAT TAACCAGCTCTTCAGTCAAGCGAATCCTCTACTCACCATGCTTCCTGCCATTCATTT CTATCTCCTTCCCCTTGCATGCATCCTAATGAAAAGCTGTTTGGCTTTAAAAATGATGC CACAGAAATCCTTTATTCACATGTGGTTAAACCTGTTCCAGCACACCCCAGCAGCAACAG CACGTTGAATCAAGCCAGAAATGGAGGCAGGCATTTAGTAACACTGGACTGGATCGGAA CACTCGGGTTCAAGTGGGTTGCCGGAACTGCGTCCACCAAATACATCTCTGATGGCCA GTGCACCAGCATCAGCCCTCTGAAGGAGCTGGTGTGTGCTGGCGAGTGCTTGCCCTGCC AGTGCTCCCTAACTGGATTGGAGGAGGCTATGGAACAAAGTACTGGAGCAGGAGGAGCTC CCAGGAGTGGCGGTGTGTCAATGACAAAACCCGTACCCAGAGAATCCAGCTGCAGTGCCA AGATGGCAGCACACGCACCTACAAAATCACAGTAGTCACTGCCTGCAAGTCAAGAGGTA CACCCCGCAGCACAAACGAGTCCAGTCACAACCTTGAGAGCATGTCACCTGCCAAGCCAGT CCAGCATCACAGAGAGCGGAAAAGAGCCAGCANATCCAGCAAGCACAGCATGAGTTAGAA CTCAGACTNCCATTACTAGACTTACTAGTAACCATCTGCTTTACAGATTTGATTGCTTGG AAGACTCAAGCCTGCCACTGCTGTTTTCTCACTTGAAAATATATGCTTTTCTGCTTTGAT CAAACCCGCAAGCTGTCTTAATATCANGACCTTCTTTGGGAATAGATTTCTTTCCAGTT TTCAAGATGTTAGTTTATCCATGATGCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_015464
<b>Insert Size:</b>	3000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_015464.1</a> , <a href="#">NP_056279.1</a>
<b>RefSeq Size:</b>	1873 bp
<b>RefSeq ORF:</b>	621 bp
<b>Locus ID:</b>	25928
<b>UniProt ID:</b>	<a href="#">Q6X4U4</a>
<b>Cytogenetics:</b>	7p21.2
<b>Protein Families:</b>	Secreted Protein

**Gene Summary:**

This gene is a member of the sclerostin family and encodes an N-glycosylated, secreted protein with a C-terminal cystine knot-like domain. This protein functions as a bone morphogenetic protein (BMP) antagonist. Specifically, it directly associates with BMPs, prohibiting them from binding their receptors, thereby regulating BMP signaling during cellular proliferation, differentiation, and programmed cell death. [provided by RefSeq, Jul 2008]