

Product datasheet for **RG203333**

SOSTDC1 (NM_015464) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: SOSTDC1
Synonyms: CDA019; DAND7; ECTODIN; USAG1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203333 representing NM_015464
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCCTCCTGCCATTCATTTCTATCTCCTTCCCCTTGCATGCATCCTAATGAAAAGCTGTTTGGCTT
TAAAAATGATGCCACAGAAATCCTTTATTCACATGTGGTTAAACCTGTTCCAGCACACCCAGCAGCAA
CAGCAGCTTGAATCAAGCCAGAAATGGAGGCAGGCATTTAGTAACACTGGACTGGATCGGAACACTCGG
GTTCAAGTGGGTTGCCGGAACTGCGTTCCACCAATACATCTCTGATGGCCAGTGCACAGCATCAGCC
CTCTGAAGGAGCTGGTGTGTGCTGGCGAGTGCTTGCCCTGCCAGTGCTCCCTAACTGGATTGGAGGAGG
CTATGGAACAAAGTACTGGAGCAGGAGGAGCTCCAGGAGTGGCGGTGTGTCAATGACAAAACCCGTACC
CAGAGAATCCAGCTGCAGTGCCAAGATGGCAGCACACGCACCTACAAATCACAGTAGTCACTGCCTGCA
AGTGCAAGAGGTACACCCGGCAGCACAACGAGTCCAGTCACAACCTTGAGAGCATGTACCTGCCAAGCC
AGTCCAGCATCACAGAGAGCGGAAAAGAGCCAGCAATCCAGCAAGCACAGCATGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203333 representing NM_015464
Red=Cloning site Green=Tags(s)

MLPPAIHFYLLPLACILMKSLAFKNDATILYSHVVKPVAHPSSNSTLNQARNGGRHFSNTGLDRNTR
VQVGCRELRSKYISDGQCTSIPLKELVCAGECLPLPVLPNWIGGGYGTKYWSRRSSQEWRCVNDKTRT
QRIQLQCQDGSTRYKITVVTACKCKRYTRQHNESHNFEFMSPAKPVQHRERKRASKSSKHSMS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_015464

ORF Size: 618 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

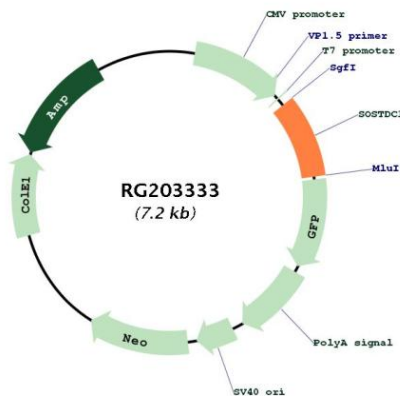
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015464.3](#)

RefSeq Size: 1883 bp

RefSeq ORF:	621 bp
Locus ID:	25928
UniProt ID:	Q6X4U4
Cytogenetics:	7p21.2
Protein Families:	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]

Product images:



Circular map for RG203333