

Product datasheet for SC305249

Sclerostin (SOST) (NM_025237) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sclerostin (SOST) (NM_025237) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sclerostin
Synonyms:	CDD; DAND6; SOST1; VBCH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_025237 edited
ACCGCGTGCCTCCTCTGGCTGGTACCATGCAGCTCCCACTGGCCCTGTGTCTCGTCTGCTGCTGCTGCTACACACAGCCTTCCGTGTAGTGGAGGGCCAGGGGTGGCAGGCGTTCAAGAAT
GATGCCACGGAAATCATCCCCGAGCTCGGAGAGTACCCCGAGCCTCCACCGGAGCTGGAG
AACAAACAAGACCATGAACCGGGCGGAGAACGGAGGGCGGCTCCCCACCCCTTTGAG
ACCAAAGACGTGTCCGAGTACAGCTGCCGCGAGCTGCACTTACCCGCTACGTGACCGAT
GGGCCGTGCCGACGCGCAAGCCGGTCACCGAGCTGGTGTGCTCCGGCCAGTGCGGCCG
GCGCGCTGCTGCCAACGCCATCGGCCGCGCAAGTGGTGGCGACCTAGTGGGCCGAC
TCCGCTGCATCCCCGACCGCTACCGCGCGCAGCGGTGAGCTGCTGTGCTCCCGTGGT
GAGGCGCCGCGCGCGCAAGGTGCGCCTGGTGGCCTCGTGCAAGTGAAGCGCCTCACC
CGCTTCCACAACAGTCCGAGCTCAAGGACTTCGGGACCGAGCCGCTCGGCCGAGAAG
GGCCGGAAGCCGCGGCCCGCGCCCGGAGCGCCAAGCCAACCAGCCGAGCTGGAGAAC
GCCTACTAGAGCCCGCCCGGCCCTCCCCACCGCGGGCGCCCGGCCCTGAACCCGCG
CCCCACATTTCTGCTCTGCGCGTGGTTTGATTGTTTATATTTTCATTGTAAATGCCTGC
AACCCAGGGCAGGGGGCTGAGACCTTCCAGGCCCTGAGGAATCCCGGGCGCCGCAAGGC
CCCCCTCAGCCCGCCAGCTGAGGGTCCCACGGGGCAGGGGAGGGAAATTGAGAGTCACAG
ACACTGAGCCACGCAGCCCCGCTCTGGGGCCGCTACCTTTGCTGGTCCCATTACAGAG
GAGGCAGAAATGGAAGCATTTTACC GCCCTGGGGTTTTAAGGGAGCGGTGTGGGAGTGG
GAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_025237 unedited NGGCAGTCATATTTTGTATACGACTCATATAGGGCGGCCGCGATTGCGCCCTTACCGCGTG CCCTCCTCTGGCTGGTACCATGCAGCTCCCACTGGCCCTGTGTCTCGTCTGCCTGCTGGT ACACACAGCCTTCCGTGTAGTGGAGGGCCAGGGGTGGCAGGCGTTCAAGAATGATGCCAC GGAAATCATCCCCGAGCTCGGAGAGTACCCCGAGCCTCCACCGGAGCTGGAGAACAACAA GACCATGAACCGGGCGGAGAACGGAGGGCGGCCTCCCCACCACCCCTTTGAGACCAAGA CGTGTCCGAGTACAGCTGCCGCGAGCTGCACTTACCCCGCTACGTGACCGATGGGCCGTG CCGCAGCGCCAAGCCGGTACCGAGCTGGTGTGCTCCGGCCAGTGCAGCCGCGCGCCT GCTGCCCAACGCCATCGGCCGCGCAAGTGGTGGCGACCTAGTGGGCCCGACTTCCGCTG CATCCCCGACCGTACCAGCGCGCAGCGCTGCAGCTGCTGTCCCGGTGGTGGAGCGCC GCGCGCGCGCAAGGTGCGCCTGGTGGCCTCGTGCAAGTGAAGCGCCTCACCCGTTCCA CAACCAGTCGGAGCTCAAGGACTTCGGGACCGANGCCGCTCGGCCGAGAAGGGCCGAA AGCCGCGCCCCGCGCCGNAGCGCCAAAGCCAACCCAGCCGAGCTGGAGAAACGCCTACT AGAGCCCGCCGCGCCCTCCCCACGGNNGGGCGCCCCGCCCTGAACCCGCGCCCCACAT TTCTGTCTCTGCGCGTGGTTTATTGTTNATATTTATTGGAATGCCTGCACCCAGGGC AGGGGGCTGAGACCTTCCAGNCCCTGAGGAATCCGGNCGCCGCAAGGCCCCCTCACCCG CCAGCTGAGGGC
Restriction Sites:	Please inquire
ACCN:	NM_025237
Insert Size:	1000 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).
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:	<u>NM_025237.2</u> , <u>NP_079513.1</u>
RefSeq Size:	2322 bp
RefSeq ORF:	642 bp
Locus ID:	50964
UniProt ID:	<u>Q9BQB4</u>
Cytogenetics:	17q21.31

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: Sclerostin is a secreted glycoprotein with a C-terminal cysteine knot-like (CTCK) domain and sequence similarity to the DAN (differential screening-selected gene aberrative in neuroblastoma) family of bone morphogenetic protein (BMP) antagonists. Loss-of-function mutations in this gene are associated with an autosomal-recessive disorder, sclerosteosis, which causes progressive bone overgrowth. A deletion downstream of this gene, which causes reduced sclerostin expression, is associated with a milder form of the disorder called van Buchem disease. [provided by RefSeq, Jul 2008]