

Product datasheet for **SC305264**

Endostatin (COL18A1) (NM_030582) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endostatin (COL18A1) (NM_030582) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL18A1
Synonyms:	GLCC; KNO; KNO1; KS
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030582, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTGGCGGCT
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CCTGGAAGGGACGGCGAGCCGGGCGACCCCGGTGAAGACGAAAGCCGGGCGACACCGGG
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 GGGGTTGAGAGAGAGGGGCCCCAGGACCCCAAGGGCCTCCAGGGCCCCAGGACCTCC
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 CAGGCCTCCTCGCTGCTGGGGGACGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCAC
 GCCTACATCGTGTCTGCATTGAGAACAGCTTCATGACTGCCTCAAGTAG

Restriction Sites:

Please inquire

ACCN:

NM_030582

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_030582.2 , NP_085059.1
RefSeq Size:	5910 bp
RefSeq ORF:	5910 bp
Locus ID:	80781
UniProt ID:	P39060
Cytogenetics:	21q22.3
Gene Summary:	<p>This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix domains (collagenous domains) interrupted by non-collagenous domains. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities, so type XVIII collagen may play an important role in retinal structure and in neural tube closure. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (1, also known as NCI-493) uses an alternate splice donor in the 5' terminal exon compared to variant 3. The encoded isoform (1) is shorter than isoform 3.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>