

## Product datasheet for **SC119860**

### Elastin (ELN) (NM\_000501) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elastin (ELN) (NM_000501) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELN
Synonyms:	ADCL1; SVAS; WBS; WS
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000501, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGTCTGACGGCGGGCGGCCCGCGGCCGGAGTCCTCCTGCTCCTGCTGTCCATCCTCCACCCCT
CTCGGCCTGGAGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGAGTCTTTATCCAGGGGCTGG
TCTCGGAGCCCTTGGAGGAGGAGCGCTGGGGCCTGGAGGCAAACCTCTTAAGCCAGTTCCCGGAGGGCTT
GCGGGTCTGGCCTTGGGGCAGGGCTCGGCGCCTTCCCGCAGTTACCTTTCCGGGGGCTCGGTGCCTG
GTGGAGTGGCTGACGCTGCTGCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGG
AGTTGGTGGCTTAGGAGTGTCTGCAGGTGCGGTGGTTCCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAA
GTGCCGGGTGTGGGGCTGCCAGGTGTATACCCAGGTGGCGTGCTCCAGGAGCTCGGTTCCCGGTGTGG
GGGTGCTCCCTGGAGTCCCACTGGAGCAGGAGTTAAGCCCAAGGCTCCAGGTGTAGGTGGAGCTTTTGC
TGAATCCAGGAGTTGACCCCTTGGGGGACCGCAACCTGGAGTCCCACTGGGGTATCCCATCAAGGCC
CCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACAGGGAACTGCCCTATGGCTATGGGCCGGAG
GAGTGGCTGGTGCAGCGGCAAGGCTGGTTACCCAACAGGGACAGGGGTTGGCCCCAGGCAGCAGCAGC
AGCGGCAGCTAAAGCAGCAGCAAAGTTCCGGTGCAGGAGCGGAGTCCCTCCCTGGTGTGGAGGGGCT
GGTGTTCCTGGCGTGCCTGGGGCAATTCCTGGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCAG
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AGGCTTTGGCCCGGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCCAGGTGTTGGTGTCCAGGAGCTGGG
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CTAAGGCAGCTGCAAAGGCAGCAAATACGGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCTACTTA
CGGGGTTGGAGCTGGGGCTTTCCCGCTTTGGTGTGCGAGTCGGAGGTATCCCTGGAGTCGAGGTGTC
CCTGGTGTGCGAGGTGTTCCCGGAGTCGGAGGTGTCGGGAGTTGGCATTTCGCCGAAGCTCAGGCAG
CAGCTGCCGCCAAGGCTGCCAAGTACGGAGTGGGGACCCAGCAGCTGCAGCTGCTAAAGCAGCCGCCAA
AGCCGCCCAGTTTGGTTAGTTCCTGGTGTGCGCGTGGCTCCTGGAGTTGGCGTGGCTCCTGGTGTGCGT
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AGCCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGCATCCCTGGACTTGGAGTTGGTGTGCGGCTCCCT
GGACTTGGAGTTGGTGTGGTGTTCCTGGACTTGGAGTTGGTGTGGTGTTCCTGGCTTCGGGGCAGTAC
CTGGAGCCCTGGCTGCCGCTAAAGCAGCAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGG
GGCTCTCGGTGGAGTAGGCATCCAGGCGGTGTGGTGGGAGCCGACCCGCCCGCCGCTGCCGAGCC
AAAGCTGCTGCCAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTCGGAGGACTCGGAGTCGGAG
GGCTTGGAGTTCCAGGTGTTGGGGCCCTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATA
CGGTGCTGCTGGCCTTGGAGGTGCTCCTAGGGGGTGCCTGGGAGTTCCTACTTGGAGGAGTGGCAGCAAGA
CCTGGCTTCGGATTGTCTCCATTTCCAGGTGGGGCCTGCCTGGGAAAGCTTGTGGCCGGAAGAGAA
AATGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000501 unedited AATTCATAACCCCGCCCGTTGNCGCAATGGGCGGTAGGCGTGTACGGTGGNGAGGTCTA TATAANGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAG CGGCCGCGAATCGGCACGAGGCCGAGATGGCGGGTCTGACGGCGGCGCCCGCGGCCCG GAGTCTCCTGCTCCTGCTGCCATCTCCACCCTCTCGGCTGGAGGGTCCCTGGGG CCATTCCTGGTGGAGTTCCTGGAGGAGTCTTTATCCAGGGGCTGGTCTCGGAGCCCTTG GAGGAGGAGCGCTGGGGCTGGAGGCAAACCTTTAAGCCAGTCCCGGAGGGCTTGGCG GTGCTGGCCTTGGGGCAGGGCTCGGCGCCTTCCCGCAGTTACCTTTCCGGGGCTCTGG TGCTGGTGGAGTGGCTGACGCTGCTGACGCTATAAAGCTGCTAAGGCTGGCGCTGGGC TTGGTGGTGTCCAGGAGTTGGTGGCTTANGAGTGTCTGCAGGTGCGGTGGTTCCTCAGC CTGGAGCCGAGTGAAGCCTGGGAAAGTGCCGGGTGTGGGGTGCAGGTGTATACCCAG GTGGCGTGTCTCCAGGAGCTCGTTCCCGGTGTGGGGGTGCTCCCTGGGAGTCCAC TGGAGCAAGAGTTAAGCCCAAGGCTCCAGGTGTAGGTGGGAGCTTTTGTGGAATCCAG GAGTTGACCCCTTGGGGGACCCCAACCTGGAGTCCACTGGGGTATCCCATCAAGGGCC CCCAGTGCCTGGTGGCTTTTGGACTGCCCTAACCCACAGGGAACTGCCCTATGGCTAT GGGCCCCGAGGAATGGCTGGTGCACCCGGCAGGCTGGTACCCAAAGGACGGGGTTG GCCCCCGGC
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' genomic read for NM_000501 unedited AGACACAAAAGTGGGCGGGCAGGAATGGGAAGTCTCTGAAGTTCAGTGGACCGAGGGA GGGATGGGGGGTATACAGTACTGCATGTGGGGACACCCCGGTGGNGAGGAGATGCCTG GCACNCCAGTCTGCACAGCCCCGCACGCCCTGNGGGAGTGTAGGATGGGGTTGGNANG CANNGNCACANGCCGCCATGACAGGTCAACCAGTTGATGGTGGTGCACCCAACCAGC TAGTGGTGCCCGGCCGTC AACCTGGGCAATGGATGGACCGACCTTTGATTTATGGAC CGTTGGCCGATTGGATCTTCAAGGGCAAGGTGGCCTTTCCCTGGTGGGGGGTTTTCC ACCCAAAAACCCCAATTTTGAACAAACATTCCTGGGGGAGGGGACCGCCCTGGC CCCCAAAAGGGTCTTCAAAGCAAACCCCTTTTGGCCCTCAGGGCTGTGCCCCCC TGTGTGGGGCCCCCTGGTTCCTGTGCCCGGAGACCCGGCTCTCCCCAAAATTTTC TCCACCCTTTTGGAGACCCCGTTGGGGTTGCCCGGAGGGACCCCTCTCCCCC TCCCCCCCCAAAAAACAACCCCGTGTGGCCCCCTTCTCCTTGAAAAAACCTT CTCTTGGGGGGCCCCCTCCTCGGAAGATGGGGGGGGGGGGGNCNCCCATCCCNNT TNNNNTTACAANAGGGGGCCCCCTCNTNGGNNAATTNCCCCCCCCCTCTTTTTTTT CCCCNNGNNTTATAAATCCCCCACCCECA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000501
<b>Insert Size:</b>	3500 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>RefSeq:</b>	<a href="#">NM_000501.1</a> , <a href="#">NP_000492.1</a>
<b>RefSeq Size:</b>	2274 bp
<b>RefSeq ORF:</b>	2274 bp
<b>Locus ID:</b>	2006
<b>UniProt ID:</b>	<a href="#">P15502</a>
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane

**Gene Summary:**

This gene encodes a protein that is one of the two components of elastic fibers. Elastic fibers comprise part of the extracellular matrix and confer elasticity to organs and tissues including the heart, skin, lungs, ligaments, and blood vessels. The encoded protein is rich in hydrophobic amino acids such as glycine and proline, which form mobile hydrophobic regions bounded by crosslinks between lysine residues. Degradation products of the encoded protein, known as elastin-derived peptides or elastokines, bind the elastin receptor complex and other receptors and stimulate migration and proliferation of monocytes and skin fibroblasts. Elastokines can also contribute to cancer progression. Deletions and mutations in this gene are associated with supraaortic stenosis (SVAS) and autosomal dominant cutis laxa. [provided by RefSeq, Aug 2017]

Transcript Variant: This variant (1) encodes isoform (a). 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.