

Product datasheet for **SC316018**

Elastin (ELN) (NM_001081753) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elastin (ELN) (NM_001081753) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELN
Synonyms:	ADCL1; SVAS; WBS; WS
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001081753, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGTCTGACGGCGGCGGCCCGCGGCCGGAGTCCTCCTGCTCCTGCTGTCCATC
CTCCACCCTCTCGGCCTGGAGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGA
GTCTTTTATCCAGGGGCTGGTCTCGGAGCCCTTGGAGGAGGAGCGCTGGGCCTGGAGGC
AAACCTCTTAAGCCAGTCCCAGGAGGCTTGGGGTGTGGCCTTGGGGCAGGGCTCGGC
GCCTTCCCAGCAGTTACCTTTCCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGTGCT
GCAGCCTATAAAGCTGCTAAGGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGC
TTAGGAGTGTCTGCAGCCCTTCTGTGCCAGGTGCGGTGGTTCTCAGCCTGGAGCCGGA
GTGAAGCCTGGGAAAGTCCCGGTGTGGGGCTGCCAGGTATACCCAGGTGGCGTGCTC
CCAGGAGCTCGGTTCCCAGGTGTGGGGTGTCCCTGGAGTCCCAGTGGAGCAGGAGTT
AAGCCCAAGGCTCCAGGTGTAGGTGGAGCTTTTGTGGAATCCCAGGAGTTGACCCCTT
GGGGGACCGCAACCTGGAGTCCCAGTGGGTATCCCATCAAGGCCCAAGCTGCCTGGT
GGCTATGGACTGCCCTACACCACAGGAACTGCCCTATGGCTATGGGCCGGAGGAGTG
GCTGGTGCAGCGGCAAGGCTGGTTACCCAACAGGGACAGGGTTGGCCCCAGGCAGCA
GCAGCAGCGGCAGCTAAAGCAGCAGCAAAGTTCGGTGTGGAGCAGCCGAGTCCCTCCCT
GGTGTGGAGGGGCTGGTGTCCCTGGCGTGCCTGGGGCAATTCCTGGAATTGGAGGCATC
GCAGGCGTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAG
TATGGAGCTGCTCAGGCTTAGTGCCTGGTGGGCCAGGCTTTGGCCCGGAGTAGTTGGT
GTCCCAGGAGCTGGCGTCCAGGTGTGGTGTCCCAGGAGCTGGGATTCCAGTTGTCCCA
GGTGTGGGATCCCAGGTGTGCGGTTCCAGGGTTGTGTACCAGAAGCAGCTGCTAAG
GCAGCTGCAAAGGCAGCCAAATACGGGGCCAGGCCCGGAGTCGGAGTTGGAGGCATTCT
ACTTACGGGGTTGGAGCTGGGGCTTTCCCGCTTTGGTGTGCGAGTCGGAGGTATCCCT
GGAGTCGCAGGTGTCCCTGGTGTGCGAGGTGTTCCCGGAGTCGGAGGTGTCCCGGAGTT
GGCATTTCGCCGAAGCTCAGGCAGCAGCTGCCGCCAAGGCTGCCAAGTACGGGTTAGTT
CCTGGTGTGCGCGTGGCTCCTGGAGTTGGCGTGGCTCCTGGTGTGCGTGTGGCTCCTGGA
GTTGGCTTGGCTCCTGGAGTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGC
GTGGCTCCCGCATTGGCCCTGGTGGAGTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTG
GCTGCCAAAGCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGCATCCCTGGACTTGGG
GTTGGTGTGCGCGTCCCTGGACTGGAGTTGGTGTGGTGTTCCTGGACTGGAGTTGGT
GCTGGTGTTCCTGGCTTCGGGGCAGTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAA
TATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGGGGCTCTCGGTGGAGTAGGCATC
CCAGGCGGTGTGGTGGGAGCCGGACCCGCCGCCGCTGCCGAGCCAAAGCTGCTGCC
AAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTCGGAGGACTCGGAGTCGGAGGG
CTTGGAGTTCCAGGTGTTGGGGCCTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCA
GCTAAATACGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCCATTTCCAGGTGGG
GCCTGCCTGGGAAAGCTTGTGGCCGGAAGAGAAAA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001081753
- 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_001081753.1</u> , <u>NP_001075222.1</u>
RefSeq Size:	3384 bp
RefSeq ORF:	2079 bp
Locus ID:	2006
UniProt ID:	<u>P15502</u>
Cytogenetics:	7q11.23
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	<p>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 supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (3) lacks alternate in-frame exons, compared to variant 1, resulting in a shorter protein (isoform c), compared to 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.</p>