

## Product datasheet for **SC337244**

### Elastin (ELN) (NM\_001278914) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elastin (ELN) (NM_001278914) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELN
Synonyms:	ADCL1; SVAS; WBS; WS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001278914, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGTCTGACGGCGGGCCCGCGGCCGGAGTCTCTGCTCTGCTGCCATCTCCACCCCT
CTCGGCCCTGGAGGGTCCCTGGGGCCATTCCTGGTGGAGTTCCTGGAGGAGTCTTTATCCAGCGCTGGG
GCCTGGAGGCAAACCTCTTAAGCCAGTTCCTGGAGGGCTTGGCGGTGCTGGCCTTGGGGCAGGGCTCGGC
GCCTTCCCGCAGTTACCTTCCGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCTGCAGCCTATA
AAGCTGCTAAGGCTGGCCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTGTCTGCAGCCCC
TTCTGTGCCAGGTGCGGTGGTTCCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGTGTGGGG
CTGCCAGGTGTATACCCAGGTGGCGTGTCTCCAGGAGCTCGGTTCCCGGTGTGGGGGTGCTCCCTGGAG
TTCCCACTGGAGCAGGAGTTAAGCCAAGGCTCCAGGTGTAGGTGGAGCTTTTGTGGAATCCAGGAGT
TGGACCTTTGGGGACCGCAACCTGGAGTCCCACTGGGGTATCCCATCAAGGCCCAAGCTGCCTGGT
GGCTATGGACTGCCCTACACCACAGGAACTGCCCTATGGCTATGGGCCGGAGGAGTGGCTGGTGCAG
CGGGCAAGGCTGGTTACCAACAGGGACAGGGGTTGGCCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGC
AGCAGCAAAGTTCGGTGTGAGCAGCCGGAGTCTCCCTGGTGTGGAGGGGCTGGTGTCTCGCGGTG
CCTGGGGCAATTCCTGGAATTGGAGGCATCGCAGGCGTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAG
CAGCCGCTAAGGCAGCAAGTATGGAGTGTGTCAGGCTTAGTGCCTGGTGGGCCAGGCTTTGGCCCGGG
AGTAGTTGGTGTCCAGGAGTGGCGTTCAGGTGTGGTGTCCAGGAGCTGGGATTCCAGTTGTCCCA
GGTGTGGGATCCAGGTGCTGCGGTTCCAGGGGTTGTGTACCAGAAGCAGCTGCTAAGGCAGCTGCAA
AGGCAGCAAATACGGGGCCAGGCCGGAGTCCGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGG
GGGCTTCCCGGCTTTGGTGTCCGAGTCCGAGGTATCCCTGGAGTCCAGGTGTCCCTGGTGTCCGAGGT
TTCCCGGAGTCCGAGGTGTCCCGGGAGTTGGCATTTCCTCCGAAGCTCAGGCAGCAGCTGCCCAAGG
CTGCCAAGTACGGGTTAGTTCTGGTGTGCGCGTGGCTCCTGGAGTTGGCGTGGCTCCTGGTGTCCGTTGT
GGCTCCTGGAGTTGGCTTGGCTCCTGGAGTTGGCGTGGCTCCTGGAGTTGGTGTGGCTCCTGGCGTTGGC
GTGGCTCCCGGCAATTGGCCCTGGTGGAGTTGCAGCTGCAGCAAAATCCGCTGCCAAGGTGGCTGCCAAAG
CCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGCATCCCTGGACTTGGAGTTGGTGTCCGCGTCCCTGG
ACTTGGAGTTGGTGTGGTGTCTGGACTTGGAGTTGGTGTGGTGTCTGGCTTCCGGGGCAGTACCT
GGAGCCCTGGCTGCCGCTAAAGCAGCAAATATGGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGGGG
CTCTCGGTGGAGTAGGCATCCAGGCGGTGTGGTGGGAGCCGGACCCGCCCGCCGCTGCCGACGCCAA
AGCTGCTGCCAAAGCCGCCAGTTTGGCCTAGTGGGAGCCGCTGGGCTCGGAGGACTCGGAGTCCGAGGG
CTTGGAGTTCAGGTGTTGGGGGCTTGGAGGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATACG
GTGCTGCTGGCCTTGGAGGTGTCTAGGGGGTGC CGGGCAGTTCCCACTTGGAGGAGTGGCAGCAAGACC
TGGCTTCGGATTGTCTCCATTTTCCAGGTGGGGCTGCCTGGGGAAAGCTTGTGGCCGGAAGAGAAAA
TGA
    
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001278914

**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).

**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.

**RefSeq:** [NM\\_001278914.1](#), [NP\\_001265843.1](#)

**RefSeq Size:** 3717 bp

**RefSeq ORF:** 2103 bp

**Locus ID:** 2006

**Cytogenetics:** 7q11.23

**Protein Families:** 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 supravalvular aortic stenosis (SVAS) and autosomal dominant cutis laxa. [provided by RefSeq, Aug 2017]

Transcript Variant: This variant (8) lacks two in-frame exons in the coding region compared to variant 1. It encodes isoform h which is shorter 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.