

Product datasheet for **SC337012**

Elastin (ELN) (NM_001278918) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elastin (ELN) (NM_001278918) 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)

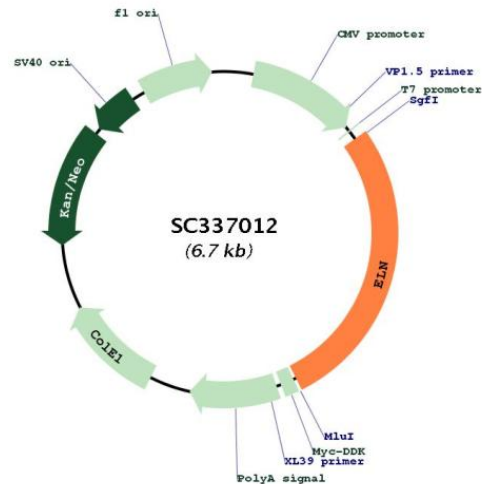


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Fully Sequenced ORF: >SC337012 representing NM_001278918.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCGGGTCTGACGGCGGGCGGCCCGGGCCGGAGTCCTCCTGCTCCTGCTGCCATCCTCCACCCC
TCTCGGCCTGGAGGGTCCCTGGGGCCATTCTGGTGGAGTTCTGGAGGAGTCTTTATCCAGCGCTG
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TCTCCATTTTCCAGGTGGGGCTGCCTGGGAAAGCTTGTGGCCGGAAGAGAAAAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001278918

Insert Size: 1854 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).

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_001278918.1](#)

RefSeq Size: 3468 bp

RefSeq ORF: 1854 bp

Locus ID: 2006

Cytogenetics: 7q11.23

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 53.6 kDa

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 (12) has multiple differences in the coding region but maintains the reading frame compared to variant 1. It encodes isoform l 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.