

Product datasheet for **RG239118**

Elastin (ELN) (NM_001278918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elastin (ELN) (NM_001278918) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elastin
Synonyms:	ADCL1; SVAS; WBS; WS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239118 representing NM_001278918.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGGTCTGACGGCGGGCGCCCGCGGCCGGAGTCCTCTGCTCCTGCTGCCATCCTCCACCCC
TCTCGGCTGGAGGGTCCCTGGGCCATTCTGGTGGAGTTCCCTGGAGGAGTCTTTATCCAGCGCTG
GGCCTGGAGGCAAACCTCTTAAGCCAGTTCCTGGAGGGCTTGGCGGTGCTGGCCTTGGGCAGGGCTC
GGCGCTTCCCCGAGTTACCTTTCGGGGGCTCTGGTGCCTGGTGGAGTGGCTGACGCTGCTGCAGCC
TATAAAGCTGCTAAGCTGGCGCTGGGCTTGGTGGTGTCCAGGAGTTGGTGGCTTAGGAGTGTCTGCA
GGTGGCGTGGTTCCTCAGCCTGGAGCCGGAGTGAAGCCTGGGAAAGTGCCGGGTGTGGGGCTGCCAGGT
GTATACCCAGGTGGCGTCTCCAGGAGTTGGACCCTTTGGGGGACCGCAACCTGGAGTCCCAGTGGGG
TATCCCATCAAGGCCCAAGCTGCCTGGTGGCTATGGACTGCCCTACACCACAGGGAACTGCCCTAT
GGCTATGGGCGCGAGGAGTGGTGGTGCAGCGGGCAAGGCTGGTACCCACAGGGACAGGGTGGC
CCCCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCAGCAAAGTTCGGTGTGGAGCAGCCGAGTCTC
CCTGGTGTGGAGGGGCTGGTGTTCCTGGCGTGCCTGGGCAATTCTGGAAATGGAGGCATCGCAGGC
GTTGGGACTCCAGCTGCAGCTGCAGCTGCAGCAGCAGCCGCTAAGGCAGCCAAGTATGGAGCTGCTGCA
GGCTTAGTGCCTGGTGGGCCAGGCTTTGGCCCGGAGTAGTTGGTGTCCAGGAGCTGGCGTTCCAGGT
GTTGGTGTCCAGGAGCTGGGATTCAGTTGTCCAGGTGCTGGGATCCAGGTGCTGCGGTTCCAGGG
GTTGTGTACCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCCAAATACGGGGCCAGGCCCGGAGTC
GGAGTTGGAGGCATTCTACTTACGGGGTTGGAGCTGGGGCTTCCCGGCTTGGTGTCCGAGTCGGA
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CCTGGATTGGCGTGGCTCCTGGTGTCCGTGTGGCTCCTGGAGTTGGCTTGGCTCCTGGATTGGCGTG
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GCAGCAAATCCGCTGCCAAGGTGGCTGCCAAGCCAGCTCCGAGCTGCAGCTGGGCTTGGTGTGGC
ATCCCTGGACTTGGAGTTGGTGTCCGCGTCCCTGGACTTGGAGTTGGTGTGGTGTCTGGACTTGA
GTTGGTGTGGTGTCTGGCTTCGGGGCAGTACCTGGAGCCCTGGCTGCCGCTAAAGCAGCCAAATAT
GGAGCAGCAGTGCCTGGGGTCTTGGAGGGCTCGGGCTCTCGGTGGAGTAGGCATCCAGGCGGTGTG
GTGGGAGCCGGACCCGCCCGCCGCTGCCGAGCCAAAGCTGCTGCCAAGCCGCCAGTTGGCCTA
GTGGGAGCCGCTGGGCTCGGAGGACTCGGAGTCGGAGGGCTTGGAGTTCCAGGTGTGGGGCTTGA
GGTATACCTCCAGCTGCAGCCGCTAAAGCAGCTAAATACGGAGTGGCAGCAAGACCTGGCTCGGATTG
TCTCCATTTTCCAGGTGGGGCTGCCTGGGAAAGCTTGTGGCCGGAAGAGAAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG239118
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAGLTAAPRPGVLLLLLSILHPSRPGVPGAIPGGVPGGVFYPALGPGGKPLKVPVGGLAGAGL
GAFPAVTFPGALVPGGVADAAAAKAAKAGAGLGGVPGVGGGLVVSAGAVVPQPGAGVKPGKVPVGLPG
VYPGGVLPVGPFGPQPGVPLGYPIKAPKLPGGYGLPYTTGKLPYGYGPGGVAGAAGKAGYPTGTG
PQAAAAAAKAAAKFAGAAAGVLPVGGAGVPGVPGAIPGIGGIAGVGTAAAAAAKAAKYGAAA
GLVPGGPGFPGVVGVPAGVPGVPGAGIPVVPAGIPGAAVPGVVSPEAAKAAKAAKYGARPGV
VGGIPTYGVGAGGFPFGVGVGAEQAQAAAAKAAKYGLVPGVGVAPGVGAPGVGAPVGLAPGVG
APGVGVAPGVGAPGIGPGGVAAAAKSAKVAQAQLRAAAGL GAGIPGLGVGVGVPGLVGVGAPVGLG
VGAGVPGFAGVPGALAAKAAKYGAAPVGLGGLGALGGVGI PGGVVGAGPAAAAAAKAAKAAQFGL
VGAAGLGLGVGGLVPGVGGGLGGIPPAKAAKYGVAARPGFLSPIFPGGACLGKACGRKRK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001278918

ORF Size: 1851 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

RefSeq: [NM_001278918.1](#), [NP_001265847.1](#)

RefSeq Size: 3468 bp

RefSeq ORF: 1854 bp

Locus ID: 2006

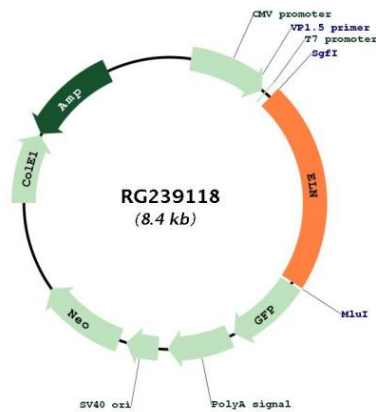
Cytogenetics: 7q11.23

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 54.1 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]

Product images:

Circular map for RG239118