

Product datasheet for **RG213648**

Elastin (ELN) (NM_001081753) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elastin (ELN) (NM_001081753) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELN
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:

>RG213648 representing NM_001081753
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGGGTCTGACGGCGCGGCCCGCGGCCGGAGTCTCCTGCTCCTGCTGTCCATCTCCACCCCT
CTCGGCCTGGAGGGTCCCTGGGGCCATTCTGGTGGAGTTCCTGGAGGAGTCTTTTATCCAGGGCTGG
TCTCGGAGCCCTTGAGGAGGAGCGCTGGGGCCTGGAGGCAAACCTTTAAGCCAGTTCCTCGGAGGGCTT
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AGTTGGTGGCTTAGGAGTGTCTGCAGCCCTTCTGTGCCAGGTGCGGTGGTTCCTCAGCCTGGAGCCGGA
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GGTTCCTCGGTGTGGGGTGTCTCCCTGGAGTTCCTACTGGAGCAGGAGTTAAGCCAAAGGCTCCAGGTGT
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GCTATGGGCCCGGAGGAGTGGCTGGTGCAGCGGCAAGGCTGGTTACCCAACAGGGACAGGGGTTGGCC
CCAGGCAGCAGCAGCAGCGGCAGCTAAAGCAGCAGCAAAGTTCGGTGTGGAGCAGCCGGAGTCTCCCT
GGTGTGGAGGGGCTGGTGTCTGGCGTGCCTGGGGCAATTCCTGGAATTGGAGGCATCGCAGGCGTTG
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GTCCAGGAGCTGGGATTCCAGTTGTCCAGGTGCTGGGATCCCAGGTGCTGCGGTTCCAGGGGTTGTGT
CACCAGAAGCAGCTGCTAAGGCAGCTGCAAAGGCAGCAAATACGGGGCCAGGCCCGGAGTCGGAGTTGG
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CAGTGCCTGGGGTCCCTTGAGGGCTCGGGCTCTCGGTGGAGTAGGCATCCCAGGCGGTGTGGTGGGAGC
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GCTGGGCTCGGAGGACTCGGAGTCGGAGGGCTTGGAGTTCAGGTGTTGGGGGCTTGGAGGTATACCTC
CAGCTGCAGCCGCTAAAGCAGCTAAATACGGAGTGGCAGCAAGACCTGGCTTCGGATTGTCTCCATTTT
CCCAGGTGGGGCTGCCTGGGAAAGCTTGTGGCCGGAAGAGAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213648 representing NM_001081753
 Red=Cloning site Green=Tags(s)

MAGLTAAAPRPGVLLLLLSILHPSRPGGVPGAIPGGVPGGVFYPGAGLGALGGGALGPGGKPLKVPVGG
 AGAGLGAGLGAFPAVTFPGALVPGGVADAAAAYKAAKAGAGLGGVPGVGGGLVSAAPSVPGAVVPPQAG
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 AGVPGFVAVPALAAKAAKYGAAVPGVLGGLGALGGVGIPIGGVVGAGPAAAAAAAAAKAAKAAQFGLVGA
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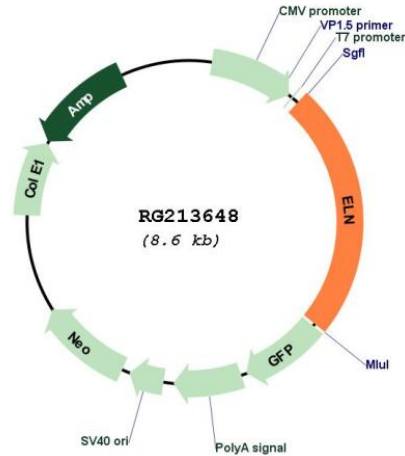
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001081753

ORF Size: 2076 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).

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_001081753.3](#)

RefSeq Size: 3384 bp

RefSeq ORF: 2079 bp

Locus ID: 2006

UniProt ID: [P15502](#)

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]