

## Product datasheet for RC212290

### EMILIN1 (NM\_007046) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EMILIN1 (NM_007046) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EMILIN1
Synonyms:	EMI; EMILIN; gp115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212290 representing NM_007046 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCCCCCGCACCCCTCTGGAGCTGCTACCTCTGCTGCCTGCTGACGGCAGCTGCAGGGGCCGCCAGCT  
ACCCTCCTCGAGGTTTCAGCCTTACACAGGTTCCAGTGGGGCCCTCAGCCCCGGGGGGCCCCAGGCCCA  
GATTGCCCGCCGAGCCAGCCGCCACAGGAAGTGGTGTGCCTACGTGGTGACCCGGACAGTGAGCTGT  
GTCCTTGAGGATGGAGTGGAGACATATGTCAAGTACCAGCCTTGTGCCTGGGGCCAGCCCCAGTGTCCCC  
AAAGCATCATGTACCGCCGCTTCTCCGCCCTCGCTACCGTGTGGCCTACAAGACAGTGACCGACATGGA  
GTGGAGGTGCTGTGAGGTTATGGGGGCGATGACTGTGCTGAGAGTCCCGCTCCAGCGCTGGGGCCTGCG  
TCTTCCACACCACGGCCCTGGCCCGGCCGCTGCCGCCCAACCTCTCTGGCTCCAGTGCAGGCAGCCCC  
TCAGTGGACTGGGGGGAGAAGTCTGGGGAGTCAGAGAAGTGCAGCAGCTGGAGGAACAGGTGCAGAG  
CCTGACCAAGGAGCTGCAAGGCCGCGGGGCGTCTGCAAGGACTGAGCGGGCGCCTGGCAGAGGATGTG  
CAGAGGGCTGTGGAGACGGCCTTCAACGGGAGGCAGCAGCCAGCTGACCGGGCTGCCCGCCTGGGGTGC  
ATGAAACCCTCAATGAGATCCAGCACCAGCTGCAGCTCCTGGACACCCCGCTCTCACCCACGACCAGGA  
GCTGGGTACCTCAACAACCATCATGGCGGCAGCAGCAGCAGTGGGGGCAGCAGGGCCCCAGCCCCAGCC  
TCAGCCCCCGGGGCCAGTGGAGGCTGCTGCGGCAGCTGGAGCAGCGTTGACAGGATCCTGCTCCG  
TGTGCTGGCCGGCTAGATGGCTTCCGCCGCGCAGCAGCAGGAGGACAGGGAGCGGCTGCGAGCGATGGA  
GAAGCTGCTGGCCTCGGTGGAGGAGCGCAACGGCACCTCGCAGGGCTGGCGGTGGGCCGAGGCCCCCT  
CAGGAATGCTGCTCTCCAGAGCTGGGCCGCGACTGGCAGAGCTGGAGCGCAGGCTGGATGTCGTGGCCG  
GCTCAGTGACAGTGTGAGTGGCGGCGAGGCACAGAGCTGGGAGGAGCCGCGGGCAGGGAGGCCACCC  
CCCAGGCTACACCAGCTTGGCCTCCCGCTGTCTCGCCTGGAGGACCGCTTCACTCCACCCTGGGCCCT  
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GCCGACTAGAGCAGTTGGGGGGCTGCTGGCCAATGTGAGCGGGAGCTGGGGGGCGGTTGGATCTGTT  
GGAGGAGCAGGTGCAGGGGCCATGCAGGCATGCGGGCAGCTCTGCTCTGGGCCCTGGGAGCAGGAC



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TCTCAAGTCAGCGAGATCCTCAGTGCCTTGGAGCGCAGGGTGTGGACAGTGAGGGGCAGCTGCGGCTGG  
 TGGGCTCCGGCCTGCACACGGTGAAGCAGCGGGGAGGCCCGGCAGGCCACGCTGGAGGGATTACAAGA  
 GGTGTGGGCGGCTCCAGGATCGTGTGGATGCCAGGATGAGACAGCTGCAGAGTTCACACTACGGCTG  
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 CCCGCTCAACAGGGCGTGGCCCGCTAGACTCCGGTGGCTACGAGCCTGAGGGCCTGGAGAATAAGCC  
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 GGGCCCTGCTCTATGGGACCCAGAGCTTGAACACGCG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTAA

**Protein Sequence:**

>RC212290 representing NM\_007046  
 Red=Cloning site Green=Tags(s)

MAPRTLWSCYLCLLLTAAGAASYPPRGFLSYTGSSGALSPGGPQAQIAPRPASRHRNWCAYVVRTVSC  
 VLEDGVEYVYKYPQCAWGPQPCQSIMYRRFLRPRYRVAYKVTDMEWRCQGYGGDDCAESPALGPA  
 SSTPRPLARPARPNL SGSSAGSPLSGLGGEGPGESEKVVQLEEQQVQSLTKELQGLRGVLQGLSGRLAEDV  
 QRAVETAFNGRQQPADAAARPGVHETLNEIQHQLQLLDTRVSTHDQELGHLNNHHGGSSSSGSRAPAPA  
 SAPPGPSEELLRQLEQRLQESCSVCLAGLDGFRQQQEDRERLRAMEKLLASVEERQRHLAGLAVGRRPP  
 QECCSPELGRRLAELERRLDVAVGSVTVL SGRRGTEL GGAAGQGGHPPGYTSLASRLSRLIEDRFNSTLGP  
 SEEQEESWPGAPGGLSHWLPAARGRLEQLGLLANVSGELGGRLDLEEQVAGAMQACGQLCSGAPGEQD  
 SQVSEILSALERRVLDSEGQLRLVGSGLHTVEAAGEARQATLEGLQEVEVGRQLQDRVDAQDETADEFTLRL  
 NLTAARLQGLEGLLQAHGDEGCGACGGVQEELGRLRDGVERCSCPLLPPRGPGAGPGVGGPSRGPDLDFGS  
 YFGSSGSALQALQGESEVILSFSSLNDSLNELQTTVEGQADLADLGATKDRIISEINRLQEEATEHA  
 TESEERFRGLEEQQAQAGQCPSLEGRRLGRLEGVCELDTVAGGLQGLREGLSRHVAGLWAGLRETNTTSQ  
 MQAALLEKLVGGQAGLGRRLGALNSSLQLLEDRLHQLSLKDLTGPAGEAGPPGPPGLQGPPGAPPPGSP  
 GKDGQEGPIGPPGQGEQGVGAPAAPVPQVAFSAALSLPRSEPGTVPFDRVLLNDGGYYDPETGVFTAP  
 LAGRYLLSAVL TGRHREKVEAVLSRSNQVARVDSGGYEPEGLNKPVAESQPSPGTLGVFSLILPLQAG  
 DTVCVDLVMGQLAHSEEPLTIFSGALLYGDPELEHA

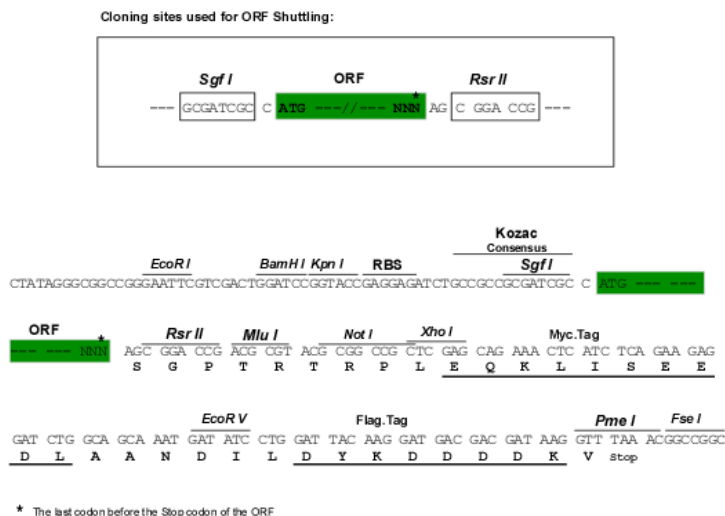
SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8026\\_d03.zip](https://cdn.origene.com/chromatograms/mk8026_d03.zip)

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**

**ACCN:** NM\_007046

**ORF Size:** 3048 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_007046.4](#)
**RefSeq Size:** 3431 bp

RefSeq ORF: 3051 bp

Locus ID: 11117

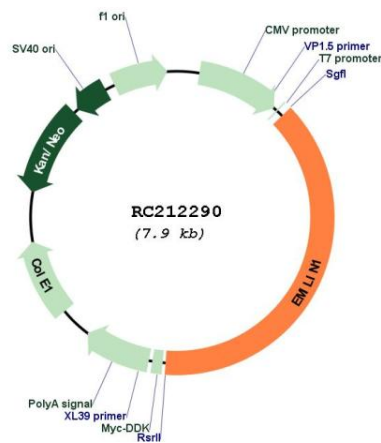
UniProt ID: [Q9Y6C2](#)

Cytogenetics: 2p23.3

MW: 106.5 kDa

**Gene Summary:** This gene encodes an extracellular matrix glycoprotein that is characterized by an N-terminal microfibril interface domain, a coiled-coiled alpha-helical domain, a collagenous domain and a C-terminal globular C1q domain. The encoded protein associates with elastic fibers at the interface between elastin and microfibrils and may play a role in the development of elastic tissues including large blood vessels, dermis, heart and lung. [provided by RefSeq, Sep 2009]

**Product images:**



Circular map for RC212290