

Product datasheet for **RG212290**

EMILIN1 (NM_007046) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMILIN1 (NM_007046) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EMILIN1
Synonyms:	EMI; EMILIN; gp115
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212290 representing NM_007046 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCCGCACCTCTGGAGCTGCTACCTCTGCTGCCTGCTGACGGCAGCTGCAGGGGCCGCCAGCT
 ACCCTCTCGAGTTTCAGCCTCTACACAGTTCCAGTGGGGCCCTCAGCCCCGGGGGCCCCAGGCCCA
 GATTGCCCCCGGCCAGCCAGCCACAGGAAGTGGTGTGCTACGTGGTGACCCGGACAGTGAGCTGT
 GTCCTTGAGGATGGAGTGGAGACATATGTCAAGTACCAGCCTTGTGCTGGGGCCAGCCCCAGTGTCCT
 AAAGCATCATGTACCGCCGCTTCTCCGCCCTCGCTACCGTGTGGCTACAAGACAGTGACCGACATGGA
 GTGGAGGTGCTGTGAGGGTTATGGGGGCGATGACTGTGCTGAGAGTCCCGCTCCAGCGCTGGGGCTGCG
 TCTTCCACACCACGGCCCTGGCCCGGCCGCTGCCGCCCAACCTCTCTGGCTCCAGTGACGGCAGCCCC
 TCAGTGGACTGGGGGAGAAGTCTGGGGAGTCAGAGAAGTGCAGCAGCTGGAGGAACAGGTGCAGAG
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 ATGAAACCCTCAATGAGATCCAGCACCAGCTGCAGCTCCTGGACACCCGCGTCTCCACCCACGACCAGGA
 GCTGGGTACCTCAACAACCATCATGGCGGCAGCAGCAGCAGTGGGGGAGCAGGGCCCCAGCCCCAGCC
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 TGTGCTTGGCCGGGCTAGATGGCTTCCGCCGGCAGCAGCAGGAGACAGGAGCGGCTGCCAGCGATGGA
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 GGAGGAGCAGGTGGCAGGGGCCATGCAGGCATGCGGGCAGCTCTGCTCTGGGGCCCTGGGAGCAGGAC


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TCTCAAGTCAGCGAGATCCTCAGTGCCTTGGAGCGCAGGGTGCTGGACAGTGAGGGGCAGCTGCGGCTGG
 TGGGCTCCGGCCTGCACACGGTGAAGCAGCGGGGAGGCCCGGCAGGCCACGCTGGAGGGATTACAAGA
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 GGTGGCCGAGAGCCAGCCAGCCCGGCACCTGGGCGTCTTACGCTCATCTGCCGCTGCAGGCCGGG
 GACACGGTCTGCGTCGACCTGGTCATGGGCGAGTGGCGCACTCGGAGGAGCCGCTCACCATCTTCAGCG
 GGGCCCTGCTCTATGGGACCCAGAGCTTGAACACGCG

AGCGGACCGACGCTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212290 representing NM_007046

Red=Cloning site Green=Tags(s)

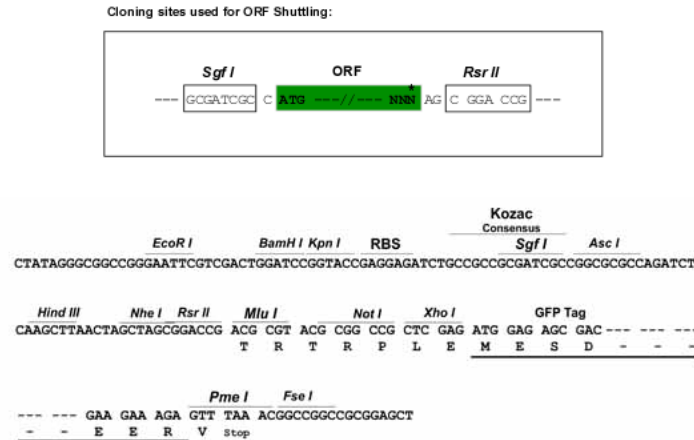
MAPRTLWSCYLCLLLTAAGAASYPPRGFSLYTGSSGALSPGGPQAQIAPRPASRHRNWCAVYVTRTVSC
 VLEDGVETVYKYQPCAWGQPQCPQSIMYRRFLRPRYRVAYKTVTDMEWRCQGYGGDDCAESPALGPA
 SSTPRPLARPARPNLSGSSAGSPLSGLGGEPPGESEKVVQLEEQVQSLTKELQGLRGVLQGLSGRLAEDV
 QRAVETAFNGRQQPADAAARPGVHETLNEIQHQLQLLDTRVSTHDQELGHLNNHHGGSSSSGGSRAPAPA
 SAPPGPSEELLRQLEQRLQESCSVCLAGLDGFRQQQEDRERLRAMEKLLASVEERQRHLAGLAVGRRPP
 QECCSPELGRRLAELERRLDVVGSVTVLSGRRGTGLGGAAGQGGHPPGYTSLASRLSRLEDRFNSTLGP
 SEEQEESWPGAPGGLSHWLPAARGRLEQLGGLLANVSGELGGRLDLLEEQVAGAMQACGQLCSGAPGEQD
 SQVSEILSALERRVLDSEQLRLVSGSLHTVEAAGEARQATLEGLQEVEVGRQLQDRVDAQDETAEEFTLRL
 NLTAARLGQLEGLLQAHGDEGCGACGGVQEELGRLRDGVERCSCPLLPPRGPAGPGVGGPSRGPLDGF
 VFSGSSGALQALQELSEVILSFSSLNDSLNELQTTVEGQGLADLGLATKDRIISEINRLQEQATEHA
 TESEERFRGLEEQQAQAGQCPGLEGRLEGVCERLDTVAGGLQGLREGLSRHVAGLWAGLRETNTTSQ
 MQAALLEKLVGGAAGLGRRLGALNSSLQLLEDRLHQLSLKDLTGPAEAGPPGPPGLQGPPGPAGPPGSP
 GKDGQEGPIGPPGPQGEQGVGAPAAPVPQVAFSAALSLRSEPGTVPFDRVLLNDGGYYDPETGVFTAP
 LAGRYLLSAVL TGRHEKVEAVLSRSNQVARVDSSGGYEPEGLENKPAESQSPGTLGVFSLILPLQAG
 DTVCDLVMGQLAHSEEPLTIFSGALLYGDPELEHA

SGPTRRRLE – GFP Tag – V

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.

RefSeq: [NM_007046.1](#), [NP_008977.1](#)

RefSeq Size: 3431 bp

RefSeq ORF: 3051 bp

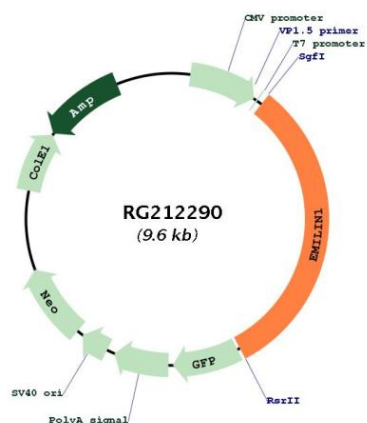
Locus ID: 11117

UniProt ID: [Q9Y6C2](#)

Cytogenetics: 2p23.3

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 RG212290