

Product datasheet for **SC326231**

Periostin (POSTN) (NM_001135935) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001135935) Human Untagged Clone
Tag:	Tag Free
Symbol:	Periostin
Synonyms:	OSF-2; OSF2; PDLPOSTN; PN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_001135935 edited
 ATGATTCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCCCTATAAAC
 GCCAACAAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGC
 CCAAAATGTCTGTGCCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGT
 AAGAACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGTTGC
 CCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGCCATTGACCAT
 GTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCA
 AAATGAGGGAGAGATCGAGGGAAAGGATCCTTCACTTACTTTGCACCGAGTAATGAG
 GCTTGGGACAACCTTGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAA
 TTAATGAACTGCTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAA
 AATGGCATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTCATTAACCATTATCCT
 AATGGGGTTGTCACCTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAAT
 GGTGTTGCCATGTCATTGACCGTGTGCTTACACAAATTTGGTACCTCAATTCAAGACTTC
 ATTTGAAGCAGAAGATGACCTTTTATCTTTAGAGCAGCTGCCATCACATCGGACATATTG
 GAGGCCCTTGAAGAGACGGTCACTTCACTCTTTGCTCCCACCAATGAGGCTTTTGAG
 AAATCTCCACGAGGTGTCTAGAAAGGATCATGGGAGACAAAGTGGCTTCCGAAGCTCTT
 ATGAAGTACCACATCTTAAATACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTC
 TTTGAGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTACAGTATAACAGTA
 AATGGAATCAAAATGGTGAACAAAAGGATATTGTGACAAATAATGGTGTGATCCATTTG
 ATTGATCAGGTCCTAATTCCTGATTCTGCCAAACAAGTATTGAGCTGGCTGGAAAACAG
 CAAACCACCTTACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTCTGAGGCCAGAT
 GGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATG
 GATCAGCGCCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTT
 AATGAGCTTTACAACGGGCAAAATACTGGAAACCATCGGAGGCAAAACAGCTCAGAGTCTTC
 GTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGAGAAAAGGAGTAAGCAAGGG
 AGAAAACGGTGCATTACATATTCGCGAGATCATCAAGCCAGCAGAGAAATCCCTCCAT
 GAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTCTCAGCCTACTTGAAGCTGCAGAC
 TTGAAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAACCAATGATGCT
 TTTAAGGGAATGACTAGTGAAGAAAAGAAATTTCTGATACGGGACAAAATGCTCTTCAA
 AACATCATTTTATCACCTGACACCAGGAGTTTTTATTGGAAAAGGATTTGAACCTGGT
 GTTACTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAGAAGTAAATGAT
 ACATCTTGGTGAATGAATTGAAATCAAAAGAATCTGACATCATGACAACAAATGGTGTG
 ATTCATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGAAAATGATCAACTG
 CTGAAAATACTTAATAAATTAATCAAAATACATCCAAATTAAGTTTGTTCGTGGTAGCACC
 TTCAAAGAAATCCCCGTGACTGTCTATAGACCCACACTAACAAAAGTCAAAATTTGAAGGT
 GAACCTGAATTCAGACTGATTAAGAAGGTGAAACAATAACTGAAGTGATCCATGGAGAG
 CCAATTTAAAAAATACACCAAAATCATTGATGGAGTGCCTGTGGAAAATACTGAAAAA
 GAGACACGAGAAGAACGAATCATTACAGGTCCTGAAATAAAATACACTAGGATTTCTACT
 GGAGGTGGAGAAAACAGAAGAACTCTGAAGAAATTTGTTACAAGAAGACACACCCGTGAGG
 AAGTTGCAAGCCAACAAAAAAGTTCAAGGATCTAGAAGACGATTAAGGGAAGGTCGTTCT
 CAGTGA

Restriction Sites: Please inquire
ACCN: NM_001135935
Insert Size: 2800 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001135935.1](#), [NP_001129407.1](#)

RefSeq Size: 3225 bp

RefSeq ORF: 2346 bp

Locus ID: 10631

UniProt ID: [Q15063](#)

Cytogenetics: 13q13.3

Protein Families: Druggable Genome, Secreted Protein

Gene Summary:

This gene encodes a secreted extracellular matrix protein that functions in tissue development and regeneration, including wound healing, and ventricular remodeling following myocardial infarction. The encoded protein binds to integrins to support adhesion and migration of epithelial cells. This protein plays a role in cancer stem cell maintenance and metastasis. Mice lacking this gene exhibit cardiac valve disease, and skeletal and dental defects. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (3) lacks two alternate in-frame exons, compared to variant 1. The encoded isoform (3, also known as thy6) is shorter than isoform 1.