

## Product datasheet for **SC337371**

### Periostin (POSTN) (NM\_001286666) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001286666) Human Untagged Clone
Tag:	Tag Free
Symbol:	POSTN
Synonyms:	OSF-2; OSF2; PDLPOSTN; PN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001286666, the custom clone sequence may differ by one or more nucleotides

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ATGATTCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTATAAACGCCAACAAATC
ATTATGACAAGATCTTGCTCATAGTCGTATCAGGGTCCGGACCAAGGCCAAAATGCTGTGCCCTTCA
ACAGATTTTGGGCACAAAAAGAAATACTTCAGCACTTGAAGAACTGGTATAAAAAAGTCCATCTGTGGA
CAGAAAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAG
CAGTTTTGCCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTC
TGACGCCCTCAAACCTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCAGTAATGAG
GCTTGGGACAACCTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATG
CTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAATGGCATGATTATTCCTTC
AATGTATAACAATTTGGGGCTTTTCATTAACCATTATCCTAATGGGGTGTCACTGTTAATTGTGCTCGA
ATCATCCATGGGAACAGATTGCAACAAATGGTGTGTCCATGTCATTGACCGTGTGCTTACACAAATTG
GTACCTCAATTCAGACTTCATTGAAGCAGAAGATGACCTTTCATCTTTAGAGCAGCTGCCATCACATC
GGACATATTGGAGGCCCTTGAAGAGACGGTCACTTCACACTCTTTGCTCCCACCAATGAGGCTTTTGAG
AAACTTCCACGAGGTGTCTAGAAAGGATCATGGGAGACAAAGTGGCTCCGAAGCTCTTATGAAGTACC
ACATCTTAAACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTCTTTGAGACGCTGGAAGGAAA
TACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGAACAAAAAGGAT
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TTGAGCTGGCTGGAAAACAGCAAACCACCTTACGGATCTGTGGCCCAATTAGGCTTGGCATCTGCTCT
GAGGCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATG
GATCAGCGCCTCCTTAAATTAATTCGAGAATCACATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTT
ACAACGGGCAAAATACTGGAACCATCGGAGGCAACAGCTCAGAGTCTTGTATATCGTACAGCTGTCTG
CATTGAAAATTCATGCATGGAGAAAGGGAGTAAGCAAGGAGAAAACGGTGCATTACATATTCCGCGAG
ATCATCAAGCCAGCAGAGAAATCCCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTCTCA
GCCTACTTGAAGCTGCAGACTTGAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAAC
CAATGATGCTTTAAGGGAATGACTAGTGAAGAAAAAGAAATTCGATACGGGACAAAAATGCTCTTCAA
AACATCATTCTTATCACCTGACACCAGGAGTTTTTCATTGGAAAAGGATTTGAACCTGGTGTACTAACA
TTTTAAAGACCACACAAGGAAGCAAAATCTTCTGAAAGAAGTAAATGATACACTCTGGTGAATGAATT
GAAATCAAAGAATCTGACATCATGACAACAAATGGTGTAAATCATGTTGTAGATAAACTCCTCTATCCA
GCAGACACACCTGTTGAAATGATCAACTGCTGGAATACTTAATAAATTAATCAAATACATCCAATTA
AGTTTGTCTGTTAGCACCTTCAAAGAAATCCCGTGACTGTCTATAGTCTGAAATAAAATACACTAG
GATTTCTACTGGAGGTGGAGAAACAGAAGAACTCTGAAGAAATGTTACAAGAAGAGGTCACCAAGGTC
ACCAAAATTCATTGAAGGTGGTGTGTCATTTATTTGAAGATGAAGAAATTAAGAGACTGCTTCAGGGAG
ACACACCCGTGAGGAAGTTGCAAGCCAACAAAAAGTTCAAGGATCTAGAAGACGATTAAGGGAAGGTCG
TTCTCAGTGA
    
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001286666

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001286666.1](#), [NP\\_001273595.1](#)

**RefSeq Size:** 3129 bp

**RefSeq ORF:** 2250 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 (6) lacks three alternate in-frame exons, compared to variant 1. The encoded isoform (6, also known as thy4) is shorter than isoform 1.