

## Product datasheet for **SC326218**

### Periostin (POSTN) (NM\_001135936) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001135936) Human Untagged Clone
Tag:	Tag Free
Symbol:	Periostin
Synonyms:	OSF-2; OSF2; PDLPOSTN; PN
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001135936, the custom clone sequence may differ by one or more nucleotides

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ATGATTCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTATAAAC
GCCAACAAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGC
CCAAATGTCTGTGCCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGT
AAGAATGGTATAAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGTTGC
CCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCACGACGTTTTGCCATTGACCAT
GTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGACGCGCTATTCTGACGCCTCA
AAACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAG
GCTTGGGACAACCTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAA
TACTGAATGCTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAA
AATGGCATGATTATCCTTCAATGTATAACAATTTGGGGCTTTTCATTAACCATTATCCT
AATGGGGTTGTCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAAT
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AAACTTCCACGAGGTGTCTAGAAAGGATCATGGGAGACAAAGTGGCTTCCGAAGCTCTT
ATGAAGTACCACATCTTAAATACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTC
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AATGGAATCAAAATGGTGAACAAAAAGGATATTGTGACAAATAATGGTGTGATCCATTTG
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CAAACCACCTTCCGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTCTGAGGCCAGAT
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GATCAGCGCCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTT
AATGAGCTTTACACGGGCAAACTGGAACCATCGGAGGCAAAACAGCTCAGAGTCTTC
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TTTAAGGGAATGACTAGTGAAGAAAAAGAAATTTCTGATACGGGACAAAAATGCTCTTCAA
AACATCATCTTTATCACCTGACACCAGGATTTTCATTGAAAAGGATTTGAACCTGGT
GTTACTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAGAAGTAAATGAT
ACACTTCTGGTGAATGAATTGAAATCAAAAAGAACTGACATCATGACAACAAATGGTGTGA
ATTCATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAATGATCAACTG
CTGGAAATACTTAATAAATTAATCAAAATACATCCAAATTAAGTTTGTTCGTGGTAGCACC
TTCAAAGAAATCCCCGTGACTGTCTATAAGCCAATTATTAATAAATAACACCAAAATCATT
GATGGAGTGCCTGTGAAATAACTGAAAAGAGACACGAGAAGAACAATCATTACAGGT
CCTGAAATAAATAACTAGGATTTCTACTGGAGGTGGAGAAACAGAAGAACTCTGAAG
AAATTGTTACAAGAAGACACCCCGTGAAGGAGTTGCAAGCCAACAAAAAAGTTCAAGGA
TCTAGAAGACGATTAAGGGAAGGTCGTTCTCAG
    
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**Restriction Sites:** Please inquire  
**ACCN:** NM\_001135936

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>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.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<p><a href="#">NM_001135936.1</a>, <a href="#">NP_001129408.1</a></p>
<b>RefSeq Size:</b>	<p>3135 bp</p>
<b>RefSeq ORF:</b>	<p>2256 bp</p>
<b>Locus ID:</b>	<p>10631</p>
<b>UniProt ID:</b>	<p><a href="#">Q15063</a></p>
<b>Cytogenetics:</b>	<p>13q13.3</p>
<b>Protein Families:</b>	<p>Druggable Genome, Secreted Protein</p>
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks three alternate in-frame exons, compared to variant 1. The encoded isoform (4) is shorter than isoform 1.</p>

