

Product datasheet for **SC325327**

Periostin (POSTN) (NM_001135934) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001135934) 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 sequence for NM_001135934 edited
 AGAGACTCAAGATGATCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTA
 ACCCTATAAACGCCAACAAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTC
 GGGACCAAGGCCAAATGTCTGTGCCCTTCAACAGATTTTGGGCACCAAAAAGAAATACT
 TCAGCACTTGTAAAGAACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTAT
 ATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGC
 CCATTGACCATGTTTATGGCAGCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATT
 CTGACGCCTCAAAACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCAC
 CGAGTAATGAGGCTTGGGACAACCTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACG
 TGAATGTTGAATTACTGAATGCTTTACATAGTCACATGATTAATAAGAGAATGTTGACCA
 AGGACTTAAAAATGGCATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTCATTA
 ACCATTATCCTAATGGGGTTGTCACTGTTAATTGTGCTCGAATCATCCATGGGAACCAGA
 TTGCAACAAATGGTGTGTCATGTCATTGACCGTGTGCTTACACAAATGGTACCTCAA
 TTCAAGACTTCATTGAAGCAGAAGATGACCTTTTCACTTTTAGAGCAGCTGCCATCACAT
 CGGACATATTGGAGGCCCTTGAAGAGACGGTCACTTCACTCTTTGCTCCCACCAATG
 AGGCTTTTGAGAACTTCCACGAGGTGTCTAGAAAGGATCATGGGAGACAAAGTGGCTT
 CCGAAGCTCTTATGAAGTACCACATCTTAAATACTCTCCAGTGTCTGAGTCTATTATGG
 GAGGAGCAGTCTTTGAGACGCTGGAAGGAAATACAATTGAGATAGGATGTGACGGTGACA
 GTATAACAGTAAATGGAATCAAAATGGTGAACAAAAGGATATTGTGACAAATAATGGTG
 TGATCCATTTGATTGATCAGGTCCTAATTCCTGATTCTGCCAAACAAGTTATTGAGCTGG
 CTGGAAAACAGCAAACCCTTACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTC
 TGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATA
 CTCTCAGCATGGATCAGCGCCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAA
 AAGTTGGCCTTAATGAGCTTTACAACGGGCAAACTACTGGAACCATCGGAGGCAAAACAGC
 TCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGAGAAAAGGA
 GTAAGCAAGGGAGAAAACGGTGCATTACATATTCGCGAGATCATCAAGCCAGCAGAGA
 AATCCCTCCATGAAAAGTAAAAACAAGATAAGCGCTTTAGCACCTTCTCAGCCTACTTG
 AAGCTGCAGACTTGAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAA
 CCAATGATGCTTTAAGGGAATGACTAGTGAAGAAAAAGAAATCTGATACGGGACAAAA
 ATGCTCTTCAAAACATCATTCTTTATCACCTGACACCAGGAGTTTTTATTGGAAAAGGAT
 TTGAACCTGGTGTACTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAG
 AAGTAAATGATACACTTCTGGTGAATGAATTGAAATCAAAAGAATCTGACATCATGACAA
 CAAATGGTGAATTCATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAA
 ATGATCAACTGCTGGAATACTTAATAAATTAATCAAATACATCCAAATTAAGTTTGTTT
 GTGGTAGCACCTTCAAAGAAATCCCGTGACTGTCTATAAGCCAATTTAAAAAATACA
 CCAAAATCATTGATGGAGTGCCTGTGGAATAACTGAAAAAGAGACACGAGAAGAACGAA
 TCATTACAGGTCCTGAAATAAAATACACTAGGATTTCTACTGGAGGTGGAGAAACAGAAG
 AAACCTGAAGAAATGTTACAAGAAGAGGTCACCAAGGTCACCAAAATTCATTGAAGGTG
 GTGATGGTCATTTATTTGAAGATGAAGAAATTAAGACTGCTTCAGGGAGACACACCCG
 TGAGGAAGTTGCAAGCCAACAAAAAGTTCAAGGATCTAGAAGACGATTAAAGGAAGGTC
 GTTCTCAGTGAAAATCCAAAAACGAAAAAATGTTTATACAACCTTAAGTCAATAACC
 TGACCTTAGAAAATTGTGAGAGCCAAGTTGACTTCAGGAAGTGAACATCAGCAC

Restriction Sites: Please inquire
ACCN: NM_001135934
Insert Size: 2500 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001135934.1.
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:	<ol style="list-style-type: none"> 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_001135934.1 , NP_001129406.1
RefSeq Size:	3219 bp
RefSeq ORF:	2340 bp
Locus ID:	10631
UniProt ID:	Q15063
Cytogenetics:	13q13.3
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<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 (2) lacks two alternate in-frame exons, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>