

## Product datasheet for **RC227281**

### Periostin (POSTN) (NM\_001135934) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001135934) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Periostin
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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ORF Nucleotide  
Sequence:

>RC227281 representing NM\_001135934  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGATTCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCCATAAACGCCAACAAATC  
 ATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGTTCGGACCAAGGCCCAAATGTCTGTGCCCTTCA  
 ACAGATTTTGGGCACAAAAAGAAATACTTCAGCACTTGAAGAACTGGTATAAAAAAGTCCATCTGTGGA  
 CAGAAAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAG  
 CAGTTTTGCCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTC  
 TGACGCCTCAAACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAG  
 GCTTGGGACAACCTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTACTGAATG  
 CTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAATGGCATGATTATTCCTTC  
 AATGTATAACAATTTGGGGCTTTTCATTAACCATTATCCTAATGGGGTGTCACTGTTAATTGTGCTCGA  
 ATCATCCATGGGAACAGATTGCAACAAATGGTGTGTCCATGTCAATTGACCGTGTGCTTACACAAATTG  
 GTACCTCAATTCAGACTTCATTGAAGCAGAAGATGACCTTTCATCTTTAGAGCAGCTGCCATCACATC  
 GGACATATTGGAGGCCCTTGAAGAGACGGTCACTTCACACTCTTTGCTCCCACCAATGAGGCTTTTGAG  
 AAACCTCCACGAGGTGCTCTAGAAAGGATCATGGGAGACAAAGTGGCTTCCGAAGCTCTTATGAAGTACC  
 ACATCTTAAACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTCTTTGAGACGCTGGAAGGAAA  
 TACAATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAAATGGTGAACAAAAAGGAT  
 ATTGTGACAAATAATGGTGTGATCCATTTGATTGATCAGGTCCTAATTCCTGATTCTGCCAAACAAGTTA  
 TTGAGCTGGCTGGAAAACAGCAAACCACCTTACGGATCTTGTGGCCCAATTAGGCTTGGCATCTGCTCT  
 GAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAATGCATTTTCTGATGATACTCTCAGCATG  
 GATCAGCGCTCCTTAAATTAATTCTGCAGAATCACATATTGAAAGTAAAAGTTGGCCTTAAAGCTTT  
 ACAACGGGCAAATACTGGAAACCATCGGAGGCAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTG  
 CATTGAAAATTCATGCATGGAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCATTACATATTCGCGAG  
 ATCATCAAGCCAGCAGAGAAATCCCTCCATGAAAAGTTAAAACAAGATAAGCGCTTAGCACCTTCTCA  
 GCCTACTTGAAGCTGCAGACTTGAAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGTGCCAAC  
 CAATGATGCTTTTAAAGGAATGACTAGTGAAGAAAAAGAAATTCGATACGGGACAAAAATGCTCTTCAA  
 AACATCATCTTTATCACCTGACACCAGGATTTTCATTGAAAAGGATTTGAACCTGGTGTACTAACA  
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 GAAATCAAAAGAACTGACATCATGACAACAAATGGTGAATTCATGTTGTAGATAAACTCCTCTATCCA  
 GCAGACACACCTGTTGGAATGATCAACTGCTGGAAATACTTAATAAATTAATCAATACATCCAATTA  
 AGTTTGTTCGTGGTAGCACCTTCAAAGAAATCCCGTGACTGTCTATAAGCCAATTATTAATAAATACAC  
 CAAAATCATTGATGGAGTGCCTGTGAAATAACTGAAAAAGACACGAGAAGAACAATCATTACAGGT  
 CCTGAAATAAATACTAGGATTTCTACTGGAGGTGGAGAAACAGAAGAACTCTGAAGAAATGTTAC  
 AAGAAGAGGTACCAAGGTACCAAAATTCATTGAAGGTGGTGTGGTCAATTTATTTGAAGATGAAGAAAT  
 TAAAAGACTGCTTCAGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAAAGTTCAAGGATCTAGA  
 AGACGATTAAGGGAAGGTCGTTCTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC227281 representing NM\_001135934  
Red=Cloning site Green=Tags(s)

MIPFLPMFSLLLLLIVNPINANNHYDKILAHSRIRGRDQGNVICALQQILGTTKKKYFSTCKNWKYSICG  
QKTTVL YECCPGYMRMEGMKGPVLPIDHVGTLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPSNE  
AWDNLDSDIRRGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPSMYNNLGLFINHYPNGVVTVNCAR  
IIHGNQIATNGVVHVIDRVL TQIGTSIQDFIEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTNEAFE  
KLPRGVLERIMGDKVASEALMKYHILNLTQCSESIMGGAVFETLEGNTIEIGCDGDSITVNGIKMVNKKD  
IVTNGVIHLIDQVLIPDSAKQVIELAGKQQTTFDLVAQLGLASALRPDGEYTL LAPVNNAFSDDTLSM  
DQRLKLILQNHILKVKVGLNELYNGQILETIGGQLRVFVYRTAVCIENSCMEKGSQGRNGAIHIFRE  
IIKPAEKSLHEKQDKRFSTFLLEAADLKELLTQPGDWTLFVPTNDAFKGMTSEEKELIRDKNALQ  
NIILYHLPVGFVIGKGFEPGVNLIKTTQGSKIFLKEVNDLLVNELKSKESDIMTTNGVIHVVDKLLYP  
ADTPVGNQDLEILNLIKYI QIKFVRGSTFKEIPVTYKPIIKKYTKIIDGVPVEITEKETREERITG  
PEIKYTRISTGGGETEETLKKLLQEEVTKVTKFIEGGDGHLEFEDEIKRLLQGDTPVRKLQANKKVQGS  
RRLREGRSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1972\\_e09.zip](https://cdn.origene.com/chromatograms/ja1972_e09.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001135934

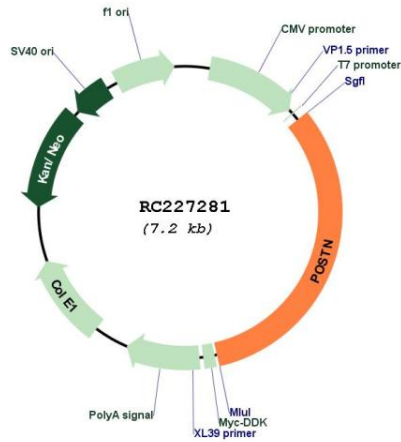
ORF Size: 2337 bp

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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

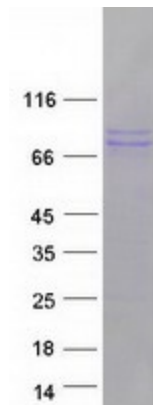
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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>	<a href="#">NM_001135934.2</a>
<b>RefSeq ORF:</b>	2340 bp
<b>Locus ID:</b>	10631
<b>UniProt ID:</b>	<a href="#">Q15063</a>
<b>Cytogenetics:</b>	13q13.3
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>MW:</b>	86.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC227281



Coomassie blue staining of purified POSTN protein (Cat# [TP327281]). The protein was produced from HEK293T cells transfected with POSTN cDNA clone (Cat# RC227281) using MegaTran 2.0 (Cat# [TT210002]).