

Product datasheet for **RC239413**

Periostin (POSTN) (NM_001286667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001286667) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POSTN
Synonyms:	OSF-2; OSF2; PDLPOSTN; PN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239413 representing NM_001286667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTCCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCCATAAACGCCAACCAATC
 ATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGTTCGGGACCAAGGCCCAAATGTCTGTGCCCTTCA
 ACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGAAGAAGTGGTATAAAAAGTCCATCTGTGGA
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Protein Sequence: >RC239413 representing NM_001286667
 Red=Cloning site Green=Tags(s)

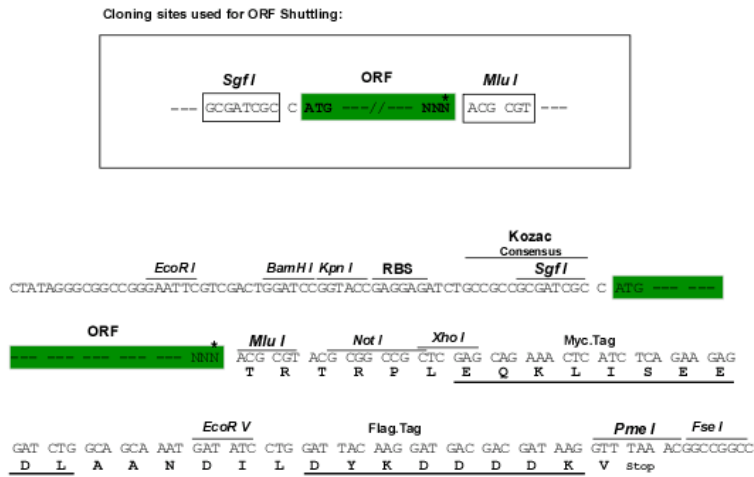
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 I IHGNQIATNGVVHVIDRVLTQIGTSIQDFIEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTNEAFE
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 IVTNGV IHLIDQVLIPDSAKQVIELAGKQQTTFDLVAQLGLASALRPDGEYTLAPVNNAFSDDTLSM
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 I IKPAEKSLHEKLNKQDKRFSTFLSLEADLKELLTQPGDWTLFVPTNDAFKGMTSEEKELIRDKNALQ
 NIILYHLTPGVFIGKGFEPGVTNLIKTTQGSKIFLKEVNDTLLVNELKSKESDIMTNGVIHVVDKLLYP
 ADTPVGNQDQLEILNKL IKYIQIKFVRG STFKEIPVTVYSPEIKYTRISTGGGETEETLKKLLQEDTPVR
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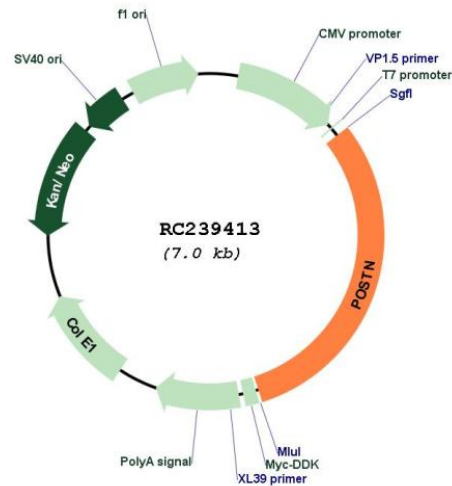
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001286667

ORF Size: 2163 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001286667.2](#)

RefSeq Size: 3045 bp

RefSeq ORF: 2166 bp

Locus ID:	10631
UniProt ID:	Q15063
Cytogenetics:	13q13.3
Protein Families:	Druggable Genome, Secreted Protein
MW:	80.8 kDa
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>