

## Product datasheet for **RG239611**

### Periostin (POSTN) (NM\_001286665) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Periostin (POSTN) (NM_001286665) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POSTN
Synonyms:	OSF-2; OSF2; PDLPOSTN; PN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239611 representing NM\_001286665.  
 Blue=ORF Red=Cloning site Green=Tag(s)

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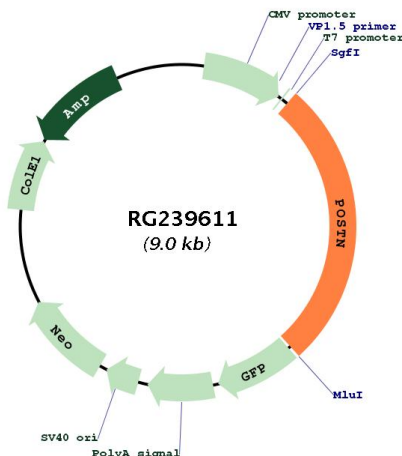
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATTCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTATAAACGCCAACAAAT
CATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGACCAAGGCCAAATGTCTGTGCCCTT
CAACAGATTTTGGGCACCAAAAAGAAATCTTCAGCACTTGTAAAGAACTGGTATAAAAAGTCCATCTGT
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GGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAAAAGTTCAAGGATCTAGAAGACGATTAAGGGAA
GGTCGTTCTCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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**Protein Sequence:** >Peptide sequence encoded by RG239611  
Blue=ORF Red=Cloning site Green=Tag(s)

MIPFLPMFLLLLLIVNPINANNHYDKILAHSRIRGRDQGNVICALQQILGTTKKKYFSTCKNWKKSIC  
GQKTTVL YECCPGYMRMEGMKGPCAVLPIDHVGTLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPS  
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CARI IHGNQIATNGVVHVIDRVL TQIGTSIQDF IEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPTN  
EAFEKLP RGVLERIMGDKVASEALMKYHILNLTQCSESIMGGAVFETLEGNTIEIGCDGDSITVNGIKM  
VNKKDIVTNGVIHLIDQVLPDSAKQVIELAGKQTTFTDLVAQLGLASALRPDGEYTL LAPVNNAFS  
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IRDKNALQNIILYHLTPGVFIGKGFEPGVNLIKTTQGSKIFLKEVNDTLLVNELKSKESDIMTTNGVI  
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SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** Sgfl-Mlul



**Plasmid Map:**


**ACCN:** NM\_001286665

**ORF Size:** 2427 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).

**RefSeq:** [NM\\_001286665.2](#)

**RefSeq Size:** 3309 bp

**RefSeq ORF:** 2430 bp

**Locus ID:** 10631

**UniProt ID:** [Q15063](#)

**Cytogenetics:** 13q13.3

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 90.9 kDa

**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]