

Product datasheet for **RG239413**

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:	TurboGFP
Symbol:	Periostin
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:

>RG239413 representing NM_001286667.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTATAAACGCCAACAAAT
CATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGTTCGGACCAAGGCCAAATGTCTGTGCCCTT
CAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAAGAACTGGTATAAAAAGTCCATCTGT
GGACAGAAAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGC
CCAGCAGTTTTGCCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGC
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AAATTGTTACAAGAAGACACACCCCGTGAGGAAGTTGCAAGCCAACAAAAAAGTTCAAGGATCTAGAAGA
CGATTAAGGAAGGTCGTTCTCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239413
 Blue=ORF Red=Cloning site Green=Tag(s)

MIPFLPMFSLLLLLIVNPIANNHYDKILAHSRIRGRDQGNVICALQQILGTTKKYFSTCKNWKYSIC
 GQKTTVLYECCPGYMRMEGMKGPCAVLPIDHVVYGLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPS
 NEAWDNLDSDIRRGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPSMYNNLGLFINHYPNGVTVN
 CARIHGNQIATNGVVHVIDRVL TQIGTSIQDF IEAEDDLSSFRAAAITS DILEALGRDGHFTLFAPT
 EAFEKLPKRVLERIMGDKVASEALMKYHILNLTLCQSESI MGAVFETLEGNTIEIGCDGDSITVNGIKM
 VNKKDIVTNGV IHLIDQVLI PDSAKQVIELAGKQTTFTDLVAQLGLASALRPDGEYTL LAPVNNAFS
 DDTLSMDQRLKLLILQNHILKVKVGLNELYNGQILETIGGKQLRVFVYRTAVCIENSCMEKGSQGRNG
 AIHIFREIIKPAEKSLHEKLRKQDKRFSTFLSLEAADLKELLTQPGDWTLFVPTNDAFKGMTSEEKIL
 IRDKNALQNIILYHLPVGFVIGKGFEPGVTNLIKTTQGSKIFLKEVNDTLLVNELKSKESDIMTNGVI
 HVVDKLLYPADTPVGNQDLEILNKL IKYIQIKFVRGSTFKEIPVTVYSPEIKYTRISTGGGETEETLK
 KLLQEDTPVRKLQANKKQVGSRRRLREGRSQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKAISHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286667

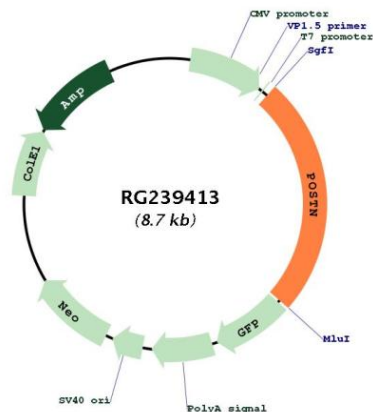
ORF Size: 2163 bp

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).
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:	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 RG239413