

Product datasheet for **RG239477**

Periostin (POSTN) (NM_001286666) Human Tagged ORF Clone

Product data:

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|---------------------------|---------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Periostin (POSTN) (NM_001286666) 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:

>RG239477 representing NM_001286666.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGATTCCTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAACCTATAAACGCCAACAAAT
CATTATGACAAGATCTTGGCTCATAGTCATCAGGGGTCGGACCAAGGCCAAATGTCTGTGCCCTT
CAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAAGAACTGGTATAAAAAGTCCATCTGT
GGACAGAAAACGACTGTGTTATATGAATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGC
CCAGCAGTTTTGCCATTGACCATGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGC
TATTCTGACGCCTCAAACTGAGGGAGGAGATCGAGGAAAGGGATCCTTCACTTACTTTGCACCGAGT
AATGAGGCTTGGGACAACTTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTA
CTGAATGCTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAATGGCATGATT
ATTCTTCAATGTATAACAATTTGGGGCTTTTCATTAACCATTATCCTAATGGGGTTGTCCTGTAAAT
TGTGCTCGAATCATCCATGGGAACCAGATTGCAACAAATGGTGTGTCCATGTCATTGACCGTGTGCTT
ACACAAATTTGGTACCTCAATTCAAGACTTCATTGAAGCAGAAGATGACCTTTCATCTTTAGAGCAGCT
GCCATCACATCGGACATATTGGAGGCCCTTGAAGAGACGGTCACTTCACACTCTTTGCTCCCACCAAT
GAGGCTTTTGGAAAACCTCCACGAGGTGTCTAGAAAAGGATCATGGGAGACAAAAGTGGCTCCGAAGCT
CTTATGAAGTACCACATCTTAAATACTCTCCAGTGTCTGAGTCTATTATGGGAGGAGCAGTCTTTGAG
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GTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATGGAGAAAAGGAGTAAGCAAGGGAGAAAACGGT
GCGATTCACATATTCCGCGAGATCATCAAGCCAGCAGAGAAAATCCCTCCATGAAAAGTAAAAACAAGAT
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AAATTGTTACAAGAAGAGGTACCAAGGTCACCAAAATTCATTGAAGGTGGTGTGATGGTCATTTATTTGAA
GATGAAGAAATTAAGAACTGCTTACGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAAAAGTT
CAAGGATCTAGAAGACGATTAAGGGAAGGTCGTTCTCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239477
 Blue=ORF Red=Cloning site Green=Tag(s)

MIPFLPMFSLLLLLIVNPINANNHYDKILAHSRIRGRDQGNVICALQQILGTTKKYFSTCKNWKYSIC
 GQKTTVL YECCPGYMRMEGMKGPCAVLPIDHVVYGLGIVGATTTQRYSDASKLREEIEGKGSFTYFAPS
 NEAWDNLSDIRRGLESNVNVELLNALHSHMINKRMLTKDLKNGMIIPSMYNNLGLFINHYPNGVTVN
 CARIHGNQIATNGVVHVIDRVL TQIGTSIQDF IEAEDDLSSFRAAAITSDILEALGRDGHFTLFAPT
 EAFEKLP RGVLERIMGDKVASEALMKYHILNLTLCQSESI MGAVFETLEGNTIEIGCDGDSITVNGIKM
 VNKKDIVTNGV IHLIDQVLI PDSAKQVIELAGKQQTTFDLVAQLGLASALRPDGEYTL LAPVNNAFS
 DDTLSMDQRLKLLILQNHILKVKVGLNELYNGQILETIGGKQLRVFVYRTAVCIENSCMEKGSQGRNG
 AIHIFREIIKPAEKSLHEKLRKQDKRFSTFLSLEAADLKELLTQPGDWTLFVPTNDAFKGMTSEEKIL
 IRDKNALQNIILYHLPVGFVIGKGFEPGVTNLIKTTQGSKIFLKEVNDTLLVNELKSKESDIMTNGVI
 HVVDKLLYPADTPVGNQDLEILNKL IKYIQIKFVRGSTFKEIPVTVYSPEIKYTRISTGGGETEETLK
 KLLQEEVTKVTKFIEGGDGHLEFEEIKRLLQGDTPVRKLLQANKKVQGSRRRLREGRSQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYTNRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPE
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286666

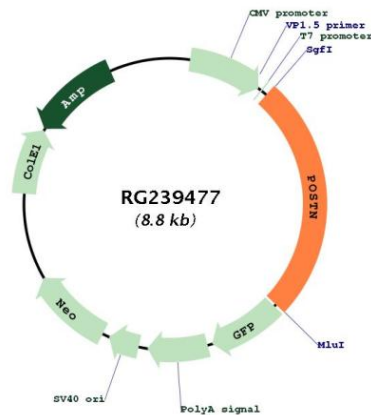
ORF Size: 2247 bp

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.

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| 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_001286666.1 , NP_001273595.1 |
| RefSeq Size: | 3129 bp |
| RefSeq ORF: | 2250 bp |
| Locus ID: | 10631 |
| UniProt ID: | Q15063 |
| Cytogenetics: | 13q13.3 |
| Protein Families: | Druggable Genome, Secreted Protein |
| MW: | 84 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 RG239477