

Product datasheet for **MR210633**

Postn (BC031449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Postn (BC031449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Postn
Synonyms:	OSF-2, Osf2, Periostin, PN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210633 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCTCTCCTGCCCTTATATGCTCTGCTGCTGTTCCTGTGTGATTAACCTGCAAATGCCA
 ACAGTTACTATGACAAGTCTGGCTCACAGCCGCATCAGGGGTCGGGATCAGGGCCAAACGTCTGTGC
 CCTCCAGCAAATTCGGGCACCAAAAAGAAATACTTCAGCTCCTGTAAGAACTGGTATCAAGGTGTATC
 TGCGGGAAGAAAACCACTGTGCTATATGAATGCTGCCCTGGCTATATGAGAATGGAAGGGATGAAAGGT
 GCCCCGACGTGATGCCTATTGACCATGTTTATGGCAGCTGGGCATTGTGGGAGCCACTACCACTCAGCA
 CTA CTCCGATGTCTCGAAGCTGAGAGAAGAGATTGAAGGAAAAGGGTCATGCACGTA CTTCGCGCCGAGT
 AACGAGGCTTGGGAGAACCTGGATTCTGACATTCGCAGAGGACTGGAGAACAATGTCAATGTTGAGCTAC
 TGAATGCCTTACACAGCCACATGGTTAATAAGAGAATGTTAACCAAGGACCTGAAACACGGCATGGTTAT
 TCCTTCAATGTACAACAATCTGGGGCTTTTTATTAACCATTATCCAATGGGGTTGTCACGTGAACTGT
 GCTCGAGTCATCCATGGGAACCAGATTGCCACAATGGTGTCTGTCATGTCATTGACCGTGTCTGACAC
 AAATTGGTACCTCCATCCAAGACTTCCTTGAAGCAGAAGACGACCTTTCATCATTAGAGCAGCCGCCAT
 CACCTCTGACCTCTGGAGTCCCTTGAAGAGATGGTCACTTCACGCTCTTTGCTCCCACCAATGAAGCT
 TTCGAGAAACTGCCACGAGGTGTCTAGAAAGGATCATGGGAGACAAAGTGGCTTCTGAAGCTCTCATGA
 AGTACCACATCCTAAATACCTCCAGTGTCTGAGGCCATCACTGGAGGAGCCGTGTTTGAGACCATGGA
 AGGAAACACTATTGAGATAGGGTGGCAAGGGGACAGTATCTCCATTAACGGAATCAAGATGGTGAACAAG
 AAAGACATTTGACTAAGAATGGTGTCTCCACCTGATTGATGAAGTCTCATTCTGATTCTGCCAAAC
 AAGTATTGAGCTGGCTGGAACACAGCAAACCACTTTCACCGACCTGGTAGCCCAATTAGCCTTGGCATC
 CTCTCTGAAGCCAGATGGAGAGTACACCTTATTAGCACCTGTGAACAATGCGTTCTCTGATGACACTCTG
 AGCATGGACCAACGCCTTCTTAAGCTAATTCTGCAAAATCACATATTGAAAGTAAAAGTTGGCCTTAGCG
 ACCTCTACAATGGACAGATACTGAAAACCAATTGGAGGCAAAACACTCCGAGTCTTTGTGTATCGGACGGC
 TATCTGCATAGAAAACCTCATGCATGGTGGAGGAAAGCAAGCAGGGAAGGAATGGTGCCATTACATATTC
 CGAGAAATCATCCAACCAGCAGAGAAATCCCTGCACGACAAGCTGCGGCAAGACAAGCGCTTTAGCATCT
 TCCTCAGCCTCCTGAAGCTGCAGATTTGAAAGATCTCCTGACACAGCCCGGAGATTGGACCTTGTGTTGC
 ACCAACCAATGATGCCTCAAGGGAATGACTAGCGAAGAAAGGGAGCTTCTGATTGGGGATAAAAATGCT
 CTCAAAACATCATTCTTTATCACCTGACCCAGGGGTTTATATTGAAAGGGATTGCAACCCGGAGTCA
 CTAATATCCTGAAGACCACAGGGAAGCAAAATCTATCTGAAAGGAGTAAACGAAACGCTTCTAGTGAA
 TGAGTTGAAGTCCAAAGAATCTGACATCATGACGACAAATGGTGTCTACACGTCGTTGGACAAAACCTCTC
 TATCCAGCAGATATTCCAGTTGGAAATGATCAGCTCTTGGAACTACTGAACAAAACGATAAAAATACATCC
 AAATCAAGTTTGTTCGTGGCAGCACCTTCAAAGAAATCCCATGACTGTCTATAGACCTGCAATGACGAA
 GATCCAAATTGAAGGTGATCCCGACTTCAGGCTGATTAAGAAGGCGAAACGGTGACAGAAGTGTCCAC
 GGAGAGCCAGTCATTAAGAGTACACAAAATCATAGATGGAGTTCCTGTTGAAATAACTGAAAAACAGA
 CTCGGGAAGAACGAATCATTACAGGTCCTGAGATAAAAATACCAGGATTTCCACAGGAGGTGGAGAAAC
 AGGAGAGACCTTGAGAAATCTTGCAAAAAGACACACCTGCAAGAAGATACCAGCCAACAAAAGGGTT
 CAAGGGCCTAGAAGACGATCAAGAGAAGGCCGTTCTCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210633 protein sequence

Red=Cloning site Green=Tags(s)

MVPLLPLYALLLFLCDINPANANSYYDKVLAHSRIRGRDQGNVCAQQILGTKKKYFSSCKNWWYQGAICGKKTTLVECCPGYMRMEGMKGPVAMPIDHVGTLGIVGATTTQHYSVSKLREEIEGKGSCTYFAPSEAWENLDSDIRRGLNENNVNVELLNALHSHMVNKRMLTKDLKHGMVIPSMYNNLGLFINHYPNGVTVNCAARVIHGNQIATNGVVHVIDRVLTIQTSIQDFLEAEDDLSSFRAAAITSDLLESGRDGHFTLFAPTNEAFEKLRGVLERIMGDKVASEALMKYHILNTLQCSEAITGGAVFETMEGNTIEIGCEGDSISINGIKMVNKDIDVTKNGVIHLIDEVLIPDSAKQVIELAGKQQTTFDLVAQLGLASSLKPGEYTLAPVNNAFSDDTLSMDQRLLKLILQNHILKVKVGLSDLYNGQILETIGGKQLRVFVYRTAICIENSCMVRGSKQGRNGAIIHIFREIIQPAEKSLHDKLRQDKRFSIFLSLLEAADLKDLLTQPGDWTLFAPTNDAFKGMTSEERELLIGDKNALQNIILYHLTPGVYIGKGFEPGVTNLIKTTQGSKIYLGKVNELLVNLKSKESDIMTTNGVIHVVDKLLYPADIPVGNLQLELLNKLIKVIQIKFVRGSTFKEIPMTVYRPAMTKIQIEGDPDFRLIKEGETVTEVIHGEIPVIKKYTKIIDGVPVEITEKQTREREIITGPEIKYTRISTGGGETGETLQKFLQKDTPAKKIPANKRVQGPARRRSREGRSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC031449

ORF Size: 2349 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: [BC031449](#), [AAH31449](#)

RefSeq Size: 3109 bp

RefSeq ORF: 2351 bp

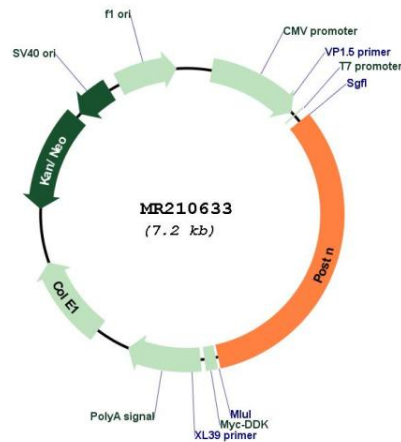
Locus ID: 50706

Cytogenetics: 3 C

MW: 87 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 MR210633