

## Product datasheet for **MR223073**

### Postn (NM\_015784) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Postn (NM_015784) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Postn
Synonyms:	A630052E07Rik; AI747096; Os; OSF; OSF-2; Osf2; p; Pe; PLF; PN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR223073 representing NM\_015784  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTTCTCTCCTGCCCTTATATGCTCTGCTGCTGTTCCTGTGTGATTAACCTGCAAATGCCA  
 ACAGTTACTATGACAAGGTCCTGGCTCACAGCCGCATCAGGGGTCGGGATCAGGGCCAAACGTCTGTGC  
 CCTCCAGCAAATTCGGGCACAAAAAGAAATACTTCAGCTCCTGTAAGAACTGGTATCAAGGTGTATC  
 TGCGGGAAGAAAACCACTGTGCTATATGAATGCTGCCCTGGCTATATGAGAATGGAAGGGATGAAAGGCT  
 GCCCCGACGTGATGCCTATTGACCATGTTTATGGCAGCTGGGCATTGTGGGAGCCACTACCACTCAGCA  
 CTA CTCCGATGTCTCGAAGCTGAGAGAAGAGATTGAAGGAAAAGGGTCATACACGTA CTTCGCGCCGAGT  
 AACGAGGCTTGGGAGAACCTGGATTCTGACATTCGCAGAGGACTGGAGAACAATGTCAATGTTGAGCTAC  
 TGAATGCCTTACACAGCCACATGGTTAATAAGAGAATGTTAACCAAGGACCTGAAACACGGCATGGTTAT  
 TCCTTCAATGTACAACAATCTGGGGCTTTTTATTAACCATTATCCAATGGGGTTGTCACGTGAACTGT  
 GCTCGAGTCATCCATGGGAACCAGATTGCCACAATGGTGTCTGTCATGTCATTGACCGTGTCTGACAC  
 AAATTGGTACCTCCATCCAAGACTTCCTTGAAGCAGAAGACGACCTTTTCATCATTAGAGCAGCCGCCAT  
 CACCTCTGACCTCTTGGAGTCCCTTGAAGAGATGGTCACTTCACGCTCTTTGCTCCCACCAATGAAGCT  
 TTCGAGAAACTGCCACGAGGTGTCTAGAAAGGATCATGGGAGACAAAGTGGCTTCTGAAGCTCTCATGA  
 AGTACCACATCCTAAATACCTCCAGTGTCTGAGGCCATCACTGGAGGAGCCGTGTTTGGAGCCATGGA  
 AGGAAACACTATTGAGATAGGGTGGCAAGGGGACAGTATCTCCATTAACGGAATCAAGATGGTGAACAAG  
 AAAGACATTGTGACTAAGAATGGTGTCTCCACCTGATTGATGAAGTCTCATTCTGATTGCCAAAC  
 AAGTATTGAGCTGGCTGGAAAACAGCAAACCACTTTCACCGACCTGGTAGCCCAATTAGCTTGGCATC  
 CTCTCTGAAGCCAGATGGAGAGTACACCTTATTAGCACCTGTGAACAATGCGTTCTCTGATGACACTCTG  
 AGCATGGACCAACGCCTTCTTAAGCTAATTCTGCAAAAATCACATATTGAAAGTAAAAGTTGGCCTTAGCG  
 ACCTCTACAATGGACAGATACTGAAAACCAATTGGAGGCAAAACACTCCGAGTCTTTGTGTATCGGACGGC  
 TATCTGCATAGAAAACCTCATGCATGGTGGAGGGAAGCAAGCAGGGAAGGAATGGTGCCATTACATATTC  
 CGAGAAATCATCCAACAGCAGAGAAAATCCCTGCACGACAAGCTGCGGCAAGACAAGCGCTTTAGCATCT  
 TCCTCAGCCTCCTGAAGCTGCAGATTTGAAAGATCTCCTGACACAGCCCGGAGATTGGACCTGTTTGC  
 ACCAACCAATGATGCCTCAAGGGAATGACTAGCGAAGAAAGGGAGCTTCTGATTGGGGATAAAAATGCT  
 CTCAAAACATCATTCTTTATCACCTGACCCAGGGGTTTATATTGAAAGGGATTGCAACCCGGAGTCA  
 CTAATATCCTGAAGACCACAGGGAAGCAAAATCTATCTGAAAGGAGTAAACGAAACGCTTCTAGTGAA  
 TGAGTTGAAGTCCAAAGAATCTGACATCATGACGACAAATGGTGTCTACACGTCGTGGACAAAACCTCTC  
 TATCCAGCAGATATTCCAGTTGGAAATGATCAGCTCTTGGAACTACTGAACAAAACGATAAAAATACATCC  
 AAATCAAGTTTGTTCGTGGCAGCACCTTCAAAGAAATCCCATGACTGTCTATAGACCTGCAATGACGAA  
 GATCCAAATTGAAGGTGATCCCGACTTCAGGCTGATTAAGAAGGCGAAACGGTGACAGAAGTGTCCAC  
 GGAGAGCCAGTCATTAAGAAAGTACACAAAATCATAGATGGAGTTCCTGTTGAAATAACTGAAAAACAGA  
 CTCGGGAAGAACGAATCATTACAGGTCCTGAGATAAAAATACCAGGATTTCCACAGGAGGTGGAGAAAC  
 AGGAGAGACCTTGCAGAAATCTTGCAAAAGAGGCTCCAAGGTCACAAAGTTCATTGAAGGTGGCGAT  
 GGTCACTTATTTGAAGATGAGGAGATTAAGAAAGACTGCTTCAGGGAGACACACCTGCAAAGAAGATACCAG  
 CCAACAAAAGGGTTCAAGGGCTAGAAGACGATCAAGAGAAGGCCGTTCTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR223073 representing NM\_015784  
Red=Cloning site Green=Tags(s)

MVPLLPLYALLLFLCDINPANANSYYDKVLAHSRIRGRDQGNVCAALQQILGTKKKYFSSCKNWWYQGAICGKKTTLVECCPGYMRMEGMKCPAVMPIDHVGTLGIVGATTTQHYSVSKLREEIEGKGSYTYFAPSNEAWENLDSDIRRGLNNVVELLNALHSHMVNKRMLTKDLKHGMVIPSMYNNLGLFINHYPNGVTVNCAARVIHGNQIATNGVVHVIDRVLTIQIGTSIQDFLEAEDDLSSFRAAAITSDLLESGRDGHFTLFAPTNEAFEKLRPGVLERIMGDKVASEALMKYHILNTLQCSEAITGGAVFETMEGNTIEIGCEGDSISINGIKMVNKDIDVTKNGVIHLIDEVLIPDSAKQVIELAGKQQTTFDLVAQLGLASSLKPGEYTLAPVNNAFSDDTL SMDQRLLKILQNHILKVKVGLSDLYNGQILETIGGQLRVFVYRTAICIENSCMVRGSKQGRNGAIHIFREIIQPAEKSLHDKLRQDKRFSIFLSLLEAADLKDLLTQPGDWTLFAPTNDAFKGMTSEERELLIGDKNALQNIILYHLTPGVYIGKGFEPGVTNLIKTTQGSKIYLGKVNELLVNLKSKESDIMTTNGVIHVVDKLLYPADIPVGNLQLELLNKLIKVIQIKFVRGSTFKEIPMTVYRPAMTKIQIEGDPDFRLIKEGETVTEVIHGEIPVIKKYTKIIDGVPVEITEKQTREERIITGPEIKYTRISTGGGETGETLQKFLQKEVSKVTKFIEGGDGHLEFDEEIKRLLQGDTPAKKIPANKRVQGPARRRSREGRSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1644\\_e01.zip](https://cdn.origene.com/chromatograms/ja1644_e01.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_015784

ORF Size: 2433 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\\_015784.3](#), [NP\\_056599.1](#)

**RefSeq Size:** 3187 bp

**RefSeq ORF:** 2436 bp

**Locus ID:** 50706

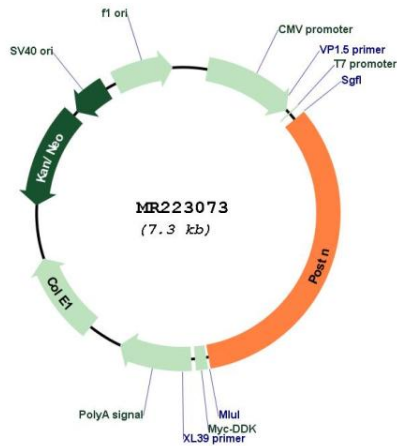
**UniProt ID:** [Q62009](#)

**Cytogenetics:** 3 C

**MW:** 90.7 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 MR223073