

## Product datasheet for **MR231138**

### Postn (NM\_001198766) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Postn (NM_001198766) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Postn
Synonyms:	A630052E07Rik; AI747096; Os; OSF; OSF-2; Osf2; p; Pe; PLF; PN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR231138 representing NM\_001198766  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTTCTCTCCTGCCCTTATATGCTCTGCTGCTGTTCCTGTGTGATTAACCTGCAAATGCCA  
 ACAGTTACTATGACAAGGTCCTGGCTCACAGCCGCATCAGGGGTCGGGATCAGGGCCCAAACGTCTGTGC  
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 CGAGAAATCATCCAACCAGCAGAGAAATCCCTGCACGACAAGCTGCGGCAAGACAAGCGCTTAGCATCT  
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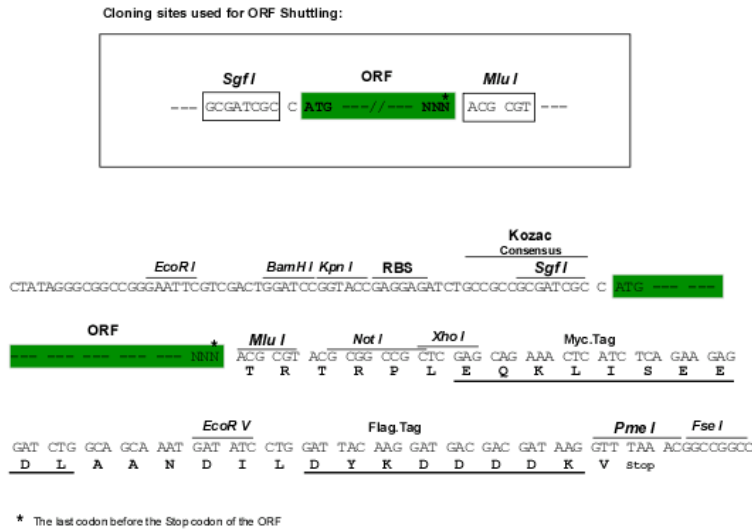
Protein Sequence: >MR231138 representing NM\_001198766  
 Red=Cloning site Green=Tags(s)

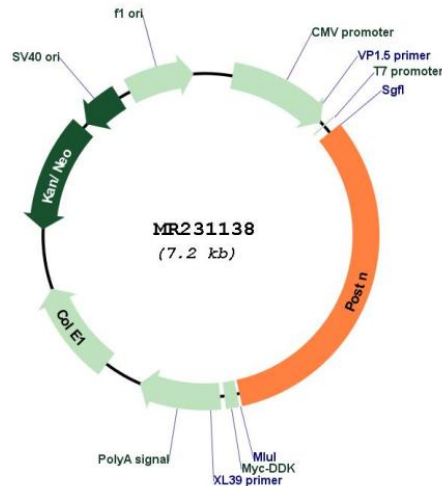
MVPLLPLYALLLFLCDINPANANSYYDKVLAHSRIRGRDQGNVICALQQILGTKKKYFSSCKNWWYQGAICGKKTTLVECCPGYMRMEGMKCPAVMPIDHVVYGTGLGIVGATTTQHYSVDVSKLREEIEGKGSYTFAPSEAWENLDSDIRRGLENNVEVLLNALHSHMVNKRMLTKDLKHGMVIPSMYNNLGLFINHYPNGVTVNCARVIHGNQIATNGVVHVIDRVLTIQIGTSIQDFLEAEDDLSSFRAAAITSDLLESRLGRDGHFTLFAPTNEAFEKLPKRVLERIMGDKVASEALMKYHILNTLQCSEAITGGAVFETMEGNTIEIGCEGDSISINGIKMVNKKDIIVTKNGVIHLIDEVLIPDSAKQVIELAGKQQTTFDLVAQLGLASSLKPGEYTLAPVNNAFSDDTL SMDQRLLKILQNHILKVKVGLSDLYNGQILETIGGKQLRVFVYRTAICIENSCMVRGSKQGRNGAIHIFREIIQPAEKSLHDKLRQDKRFSIFLSLLEAADLKDLLTQPGDWTLFAPTNDAFKGMTSEERELLIGDKNALQNIILYHLTPGVYIGKGFEPGVTNLIKTTQGSKIYKGVNETLLVNELKSKESDIMTTNGVIHVVDKLLYPADIPVGNLQLELLNKLIKYIQIKFVRGSTFKEIPMTVYRPAMTKIQIEGDPDFRIKEGETVTEVIHGEPIVKKYTKIIDGVPVEITEKQTREERIITGPEIKYTRISTGGGETGETLQKFLQKDTPAKKIPANKRVQGPARRRSREGRSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001198766

**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:** [NM\\_001198766.1](#), [NP\\_001185695.1](#)

**RefSeq Size:** 3130 bp

**RefSeq ORF:** 2352 bp

**Locus ID:** 50706

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

**Cytogenetics:** 3 C

**MW:** 87.5 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]