

Product datasheet for **MC228927**

Postn (NM_001198766) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Postn (NM_001198766) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC228927 representing NM_001198766
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTCTCTCCTGCCCTTATATGCTCTGCTGCTGTTCCTGTGTGATTAACCTGCAAATGCCA
 ACAGTTACTATGACAAGGTCCTGGCTCACAGCCGCATCAGGGGTCGGGATCAGGGCCCAAACGTCTGTGC
 CCTCCAGCAAATTCGGGCACAAAAAGAAATACTTCAGCTCCTGTAAGAACTGGTATCAAGGTGCTATC
 TGCGGGAAGAAAACCACTGTGCTATATGAATGCTGCCCTGGCTATATGAGAATGGAAGGGATGAAAGGCT
 GCCCCGACGTGATGCCTATTGACCATGTTTATGGCAGCTGGGCATTGTGGGAGCCACTACCACTCAGCA
 CTA CTCCGATGTCTCGAAGCTGAGAGAAGAGATTGAAGGAAAAGGGTCATACACGTA CTTCGCGCCGAGT
 AACGAGGCTTGGGAGAACCTGGATTCTGACATTCGCAGAGGACTGGAGAACAATGTCAATGTTGAGCTAC
 TGAATGCCTTACACAGCCACATGGTTAATAAGAGAATGTTAACCAAGGACCTGAAACACGGCATGGTTAT
 TCCTTCAATGTACAACAATCTGGGGCTTTTTATTAACCATTATCCAATGGGGTTGTCACGTGAACTGT
 GCTCGAGTCATCCATGGGAACCAGATTGCCACAATGGTGTCTGTCATGTCATTGACCGTCTCTGACAC
 AAATTGGTACCTCCATCCAAGACTTCCTTGAAGCAGAAGACGACCTTTTCATCATTAGAGCAGCCGCCAT
 CACCTCTGACCTCTTGGAGTCCCTTGAAGAGATGGTCACTTCACGCTCTTTGCTCCCACCAATGAAGCT
 TTCGAGAAACTGCCACGAGGTGCTCTAGAAAGGATCATGGGAGACAAAGTGGCTTCTGAAGCTCTCATGA
 AGTACCACATCCTAAATACCTCCAGTGTCTGAGGCCATCACTGGAGGAGCCGTGTTTGAGACCATGGA
 AGGAAACACTATTGAGATAGGGTGCGAAGGGGACAGTATCTCCATTAACGGAATCAAGATGGTGAACAAG
 AAAGACATTGTGACTAAGAATGGTGTCTCCACCTGATTGATGAAGTCTCATTCTGATTCTGCCAAAC
 AAGTATTGAGCTGGCTGGAAAACAGCAAACCACTTTCACCGACCTGGTAGCCCAATTAGCCTTGGCATC
 CTCTCTGAAGCCAGATGGAGAGTACACCTTATTAGCACCTGTGAACAATGCGTTCTCTGATGACACTCTG
 AGCATGGACCAACGCCTTCTTAAGCTAATTCTGCAAAATCACATATTGAAAGTAAAAGTTGGCCTTAGCG
 ACCTCTACAATGGACAGATACTGAAAACCAATTGGAGGCAAAACACTCCGAGTCTTTGTGTATCGGACGGC
 TATCTGCATAGAAAACCTCATGCATGGTGTGAGAGGAAGCAAGCAGGGAAGGAATGGTGCCATTACATATTC
 CGAGAAATCATCCAACCAGCAGAGAAAATCCCTGCACGACAAGCTGCGGCAAGACAAGCGCTTTAGCATCT
 TCCTCAGCCTCCTGAAGCTGCAGATTTGAAAGATCTCCTGACACAGCCCGGAGATTGGACCTTGTTTGC
 ACCAACCAATGATGCCTCAAGGGAATGACTAGCGAAGAAAGGGAGCTTCTGATTGGGGATAAAAATGCT
 CTCAAAACATCATTCTTTATCACCTGACCCAGGGGTTTATATTGAAAGGGATTGCAACCCGGAGTCA
 CTAATATCCTGAAGACCACAGGGAAGCAAAATCTATCTGAAAGGAGTAAACGAAACGCTTCTAGTGAA
 TGAGTTGAAGTCAAAGAATCTGACATCATGACGACAAATGGTGTCTACACGTCGTGGACAAAACCTCTC
 TATCCAGCAGATATTCCAGTTGGAAATGATCAGCTCTTGGAACTACTGAACAAAACGATAAAAATACATCC
 AAATCAAGTTTGTTCGTGGCAGCACCTTCAAAGAAATCCCATGACTGTCTATAGACCTGCAATGACGAA
 GATCCAATTAAGGTGATCCCGACTTCAGGCTGATTAAGAAGGCGAAACGGTGACAGAAGTGTCCAC
 GGAGAGCCAGTCATTAAGAAAGTACCAAAAATCATAGATGGAGTTCCTGTTGAAATAACTGAAAAACAGA
 CTCGGGAAGAACGAATCATTACAGGTCCTGAGATAAAAATATACCAGGATTTCCACAGGAGGTGGAGAAAC
 AGGAGAGACCTTGCAGAAATCTTGCAAAAAGACACACCTGCAAAGAAGATACCAGCCAACAAAAGGGTT
 CAAGGGCCTAGAAGACGATCAAGAGAAGGCCGTTCTCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001198766
Insert Size: 2352 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001198766.1</u> , <u>NP_001185695.1</u>
RefSeq Size:	3130 bp
RefSeq ORF:	2352 bp
Locus ID:	50706
UniProt ID:	<u>Q62009</u>
Cytogenetics:	3 C
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 3' coding region, compared to variant 1. It encodes isoform 3, which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>