

## Product datasheet for **MC210007**

### **Smad9 (NM\_019483) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smad9 (NM_019483) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smad9
Synonyms:	Madh; MADH6; Madh8; Madh9; SMA; SMAD; Smad8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC210007 representing NM\_019483  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCCCGAGCACCCCATCAGCTCCCTTCTCCTTACCAGCCCGCAGTGAAGCGGCTGCTGGGCT  
 GGAAGCAGGGAGATGAAGAGGAGAAGTGGGCAGAGAAGGCGGTGGACTCTTTGGTGAAGAAGTTAAAGAA  
 GAAGAAAGGCGCCATGGATGAACTGGAGAGGGCGCTGAGCTGCCCGGTGAGCCTAGCAAGTGTGTACC  
 ATCCCACGGTCCCTCGATGGACGCTCCAGGTGTCCACCAGAAAGGGGCTGCCACGTCATCTACTGCC  
 GCGTGTGGCGCTGGCCAGACCTGCAGTCCCATCATGAGCTGAAGCCCTGGAGTGTGTGAGTCCCGTT  
 CGGCTCCAAGCAGAAGGAGGTCTGCATCAACCCATACCATTACCGCAGAGTGGAGACCCAGTCTGCT  
 CCAGTGTGTTACCAAGACACAGCGAGTACAACCCTCAGCTCAGCCTCCTGGCCAAGTCCGAAGTGCCT  
 CGCTGCACAGCGAACCCCTCATGCCGACAACGCCACCTACCCTGACTCTTCCAGCAGTCTCTGTGCC  
 GGCACCGCCCTCCTCGCCAGGCCATGTGTTCCGAGTCTCCATGCCCCACCAGTACCCGCACTCCCC  
 GGAAGTCCCTCAGACAGTCCCTATCAACTCAGACTCCGGCCAGTTTGTACGAGGAACCCAGCACT  
 GGTGTTCTGTTGCCTACTACGAATAACAACCGGTGCGAGAGACTTCCAGGCGTCTCGCGGAGCGT  
 GCTCATAGACGGCTTACCGACCCTTCCAATAACAGGAATAGTTTTGCCTGGGCTTCTCTCAAATGTA  
 AACAGAACTCGACCATAGAAAACACCAGGAGGCACATTGGAAAGGGTGTGCATTTGACTACGTTGGG  
 GCGAGGTGTATGCGGAGTGCCTGAGCGACAGCAGCATCTTTGTCCAGAGCCGAACTGCACTACCAGCA  
 CGGCTTCCACCGGCCACCGTCTGCAAGATCCCCAGCGGCTGCAGCCTCAAGGTCTTCAACAACAGCTC  
 TTCGCCAGCTGCTCGCCAGTCCGTGCACCACGGCTTGAAGTGGTGTATGAGCTGACGAAGATGTGCA  
 CGATTCGGATGAGCTTTGTGAAGGGCTGGGGAGCAGAGTATCATCGCCAGGATGTACAGCACCCCTG  
 CTGGATCGAGATCCATCTTCATGGACCGCTGCAGTGGTTGGATAAGGTGCTCACTCAGATGGGCTCCCCA  
 CACAACCCTATCTCTTCAAGTGTCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_019483

**Insert Size:** 1287 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_019483.5](#), [NP\\_062356.3](#)

**RefSeq Size:** 5380 bp

**RefSeq ORF:** 1293 bp

**Locus ID:** 55994

**UniProt ID:** [Q9JIW5](#)

**Cytogenetics:** 3 C

**Gene Summary:** This gene encodes a member of a family of proteins that act as downstream effectors of the bone morphogenetic protein (BMP) signaling pathway. The encoded protein is phosphorylated by BMP receptors, which stimulates its binding to SMAD4 and translocation into the nucleus, where it functions as a regulator of transcription. Activity of this protein is important for embryonic development. Mutation of this gene results in defects in pulmonary vasculature. [provided by RefSeq, Mar 2013]