

Product datasheet for **MR226782**

Smad9 (NM_019483) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad9 (NM_019483) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226782 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACCCAGCACCCCCATCAGCTCCCTCTTCTCCTTACCAGCCCCGAGTGAAGCGGCTGCTGGGCT
 GGAAGCAGGGAGATGAAGAGGAGAAGTGGGCAGAGAAGGCGGTGGACTCTTTGGTGAAGAAGTTAAAGAA
 GAAGAAAGGGCGCCATGGATGAACTGGAGAGGGCGCTGAGCTGCCCGGTGAGCCTAGCAAGTGTGTACC
 ATCCCACGGTCCCTCGATGGACGCCTCCAGGTGTCCACCAGAAAGGGGCTGCCCCACGTCTACTGCTCC
 GCGTGTGGCGCTGGCCAGACCTGCAGTCCCATCATGAGCTGAAGCCCTTGGAGTGTGTGAGTCCCGTT
 CGGCTCCAAGCAGAAGGAGGTCTGCATCAACCCATACCATTACCGCAGAGTGGAGACCCAGTTCTGCCT
 CCAGTGTGTACCAAGACACAGCGAGTACAACCCTCAGCTCAGCCTCCTGGCCAAGTCCGAAGTGCCT
 CGCTGCACAGCGAACCCCTCATGCCGACAACGCCACCTACCCTGACTCTTCCAGCAGTCTCTCTGTCC
 GGCACCCGCTCCTCGCCAGGCCATGTGTTCCGCACTCCATGCCCCACCAGTACCCGCACTCCCC
 GGAAGTCTTTCAGACAGTCCCTATCAACACTCAGACTTCCGGCCAGTTTGTCTACGAGGAACCCAGCACT
 GGTGTTCTGTTGCCTACTACGAATAAACCAACCGGTCGGAGAGACTTCCAGGGCTCCTCGCGGAGCGT
 GCTCATAGACGGCTTACCGACCCTTCCAATAACAGGAATAGTTTTGCCTTGGGCTTCTCTCAAATGTA
 AACAGAACTCGACCATAGAAAACACCAGGAGGCACATTGGAAAGGGTGTGCATTTGACTACGTTGGGG
 GCGAGGTGTATGCGGAGTGCCTGAGCGACAGCAGCATCTTTGTCCAGAGCCGGAAGTCAACTACCAGCA
 CGGCTTCCACCCGGCCACCGTCTGCAAGATCCCCAGCGGCTGCAGCCTCAAGGTCTTCAACAACAGCTC
 TTCGCCAGCTGCTCGCCAGTCCGTGCACCACGGCTTGAAGTGGTGTATGAGCTGACGAAGATGTGCA
 CGATTCGGATGAGCTTTGTGAAGGGCTGGGGAGCAGAGTATCATCGCCAGGATGTCACGAGCACCCCTG
 CTGGATCGAGATCCATCTTCATGGACCGCTGCAGTGGTTGGATAAGGTGCTCACTCAGATGGGCTCCCCA
 CACAACCCTATCTCTTCAAGTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226782 protein sequence
 Red=Cloning site Green=Tags(s)

MHPSTPISSLFSTSPAVKRLLGWKQGDEEEKWAEKAVDSLKLLKLLKKKGAMDELERALSCPGQPSKCVT
 IPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLSHHEKPLECFEFPFGSKQKEVCINPYHYRRVETPVLV
 PVLVPRHSEYNPQLSLLAKFRSASLHSEPLMPHNATYPDSFQQSLCPAPPSSPGHVFPQSPCPTSYPHSP
 GSPSDSPYQHSDFRPVCEEPQHWCSVAYYELNRRVGETFQASSRSVLIDGFTDPSNRRNRFLGLLSNV
 NRRNSTIENRRHIGKGVHLYYVGGEVYAEVSDSSIFVQSRNCNYQHGFHPATVCKIPSGCSLKVFNQL
 FAQLLAQSVHHGFVVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLVTQMGSP
 HNPISVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_019483

ORF 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 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](#)

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).

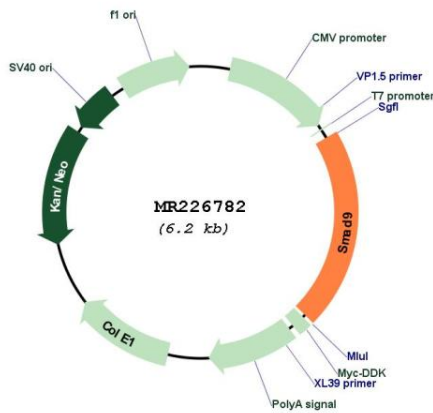
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_019483.2](#)

RefSeq Size: 5380 bp
 RefSeq ORF: 1293 bp
 Locus ID: 55994
 UniProt ID: [Q9JIW5](#)
 Cytogenetics: 3 C
 MW: 48.4 kDa

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]

Product images:



Circular map for MR226782