

Product datasheet for **RR205371**

Smad1 (NM_013130) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad1 (NM_013130) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad1
Synonyms:	Madh1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR205371 representing NM_013130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATGTGACCAGCTTGTTTTCATTACACAAGCCAGCTGTGAAGAGACTCCTTGGTGGAACAGGGCG
 ACGAAGAAGAGAAATGGGCGGAGAAGGCTGTGGACGCTTTGGTGAAGAACTGAAGAAGAAGAAAGGGC
 CATGGAAGAGCTGGAGAAGGCCCTGAGCTGCCCGGGCAGCCAGTAAGTGTGTACCATTCTCGCTCC
 CTGGATGGCAGGTTGCAGGTGTCCACCGGAAGGGACTGCCTCATGTCAATTTATTGCCGCGTGTGGCGCT
 GGCCCGACCTCCAGAGCCATCATGAAGTAAAGCCTCTGGAATGCTGCGAGTTCCCATTTGGTTCCAAGCA
 GAAGGAAGTCTGCATCAATCCCTACCCTATAAGCGAGTGGAGAGCCCCGTTCTCCACCGGTGCTGGTT
 CCGAGGCACGCGAGTACAACCCTCAGCACAGCCTTCTGGCTCAGTTCGAAACCTGGGACAAAATGAGC
 CCCACATGCCACTGAATGCCACGTTCCCGACTCCTCCAGCAGCCACACAGCCACCCGTTCCCCAGTC
 CCCAACAGCAGTACCCCAACTCTCCTGGCAGCAGCAGCAGCACCTACCCTCACTCCCCGACCAGCTCA
 GACCCGGGAGCCCTTTTCAGATGCCAGCCGACACACCCCGCCTGCTTACCTGCCTCCTGAAGACCCCA
 TGGCCAGGATGGCTCTCAGCCTATGGACACGAACATGACGAACATGACGGCACCGACACTGCCCGCGGA
 GATCAATAGAGGAGATGTTCAAGCAGTTGCTTACGAGGAACAAAACACTGGTGTCTATTGTGTACTAT
 GAGCTCAACAACCGTGTGGGCGAAGCGTTCATGCCTCCTCCACAGCGTGTGGTGGATGGTTTACC
 ATCCTTCCAACAATAAGAACCGATTCTGCCTGGGCTGCTCTCCAATGTTAACCGGAACCTCACTATTGA
 AAATACCAGGCGACACATCGGAAAGGAGTCCACCTTTATTACGTCGGAGGAGAGGTGTATGCGGAGTGC
 CTCAGTGACAGCAGCATCTTCGTGCAGAGTCGGAAGTCAACTACCACCTGGCTTTCATCCACACCGG
 TCTGCAAGATCCCAGCGGGTGCAGCTTGAAAATCTTCAACAACCAAGAGTTTCGCTCAGTACTGGCGCA
 GTCTGTGAACCATGGGTTTCGAGACAGTGTATGAACTCACCAAAATGTGCACTATTGCAATGAGCTTCGTG
 AAGGGCTGGGAGCGGAGTACCACCGCAGGATGTCACTAGCACCCCTGCTGGATTGAGATACACCCGC
 ATGGCCCTCTCCAGTGGCTGGATAAAGTCTTACCAGATGGGTTGCCCCACAACCCTATTTCTGTCGGT
 GTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205371 representing NM_013130
 Red=Cloning site Green=Tags(s)

MNVTSLSFSTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPSNCVTIPRS
 LDGRLQVSHRGLPHVIYCRVWRWPDLSHHEKPLECEFFPGSKQKEVCINPYHYKRVESVLPVPLV
 PRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPHSHFPQSPNSSYPNSPGSSSYPHSPTSS
 DPGSPFQMPADTPPPAYLPPEDPMAQDGSQPMNTNMTAPTLPAEINRGDVQAVAYEPEKHWCSIVYY
 ELNRRVGEAFHASSTSVLVDGFTDPSNNKRFCLGLLSNVNRNSTIENTRRHIGKGVHLYVYGGVEVYAE
 LSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKFNNQEFALLAQSVNHGFETVYELTKMCTIRMSFV
 KGWGAEYHRQDVTSTPCWIEIHPHGPLQWLDKVLTMGSPHNPISSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

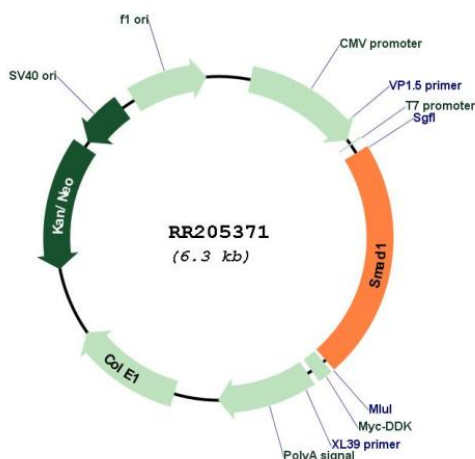
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_013130

ORF Size:

1404 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_013130.2](#), [NP_037262.2](#)

RefSeq Size: 3010 bp

RefSeq ORF: 1407 bp

Locus ID: 25671

Cytogenetics: 19q11

MW: 52.5 kDa

Gene Summary: a transcriptional activator; activated by bone morphogenetic protein 4 (BMP4) [RGD, Feb 2006]