

Product datasheet for **RN212493**

Smad2 (NM_019191) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad2 (NM_019191) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Smad2
Synonyms:	Madh2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212493 representing NM_019191
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGTCCTACTTTGCCATTCACCTCCGCCAGTGGTGAAGAGACTTCTGGGATGGAAAAATCAGCCGGTG
GGTCTGGAGGAGCAGGTGGTGGAGAACAGAATGGACAGGAAGAAAAGTGGTGTGAAAAAGCAGTGAAAAAG
TCTGGTAAAAAGCTAAAGAAAAAGGACGATTAGATGAGCTTGAGAAAGCCATCACCCTCAGAAATTGC
AATACTAAGTGTGCACCATACCAAGCACTTGCTCTGAAATTTGGGGACTGAGTACAGCAAAATACGGTAG
ATCAGTGGGACACAACAGGCCTTACAGCTTCTCTGAACAAACCAGGCTCTTGATGGTCTCTCAGGT
GTCTCATCGAAAGGGCTGCCACATGTTATATATTGCCGGCTGTGGCGCTGGCCAGACCTTCACAGCCAT
CATGAGCTCAAGGCGATCGAGAATCGAATACGCTTTCAGTCTGAAAAAAGATGAAGTGTGTGAACC
CTTACCCTACCAGGGTGGAGACACCAGTCTTGCCCTCAGTCTTGGTCCCTCGGCACACAGAGATTCT
AACAGAATGCCGCTCTGGATGACTATACCCACTCCATTCAGAAAAACAAAATTTCCAGCAGGAATT
GAGCCACAGAGTAATTACATCCCAGAAACACCACCCTGGATATATCAGTGAAGATGGAGAACTAGTG
ACCAACAGTTGAACCAAAGTATGGACACAGGCTCTCCGGCTGAAGTGTCTCCTACCCTCTCCCTGT
CAATCACAGCTTGGATTTGCAGCCAGTTACTTATTCAGAACCTGCATTTTGGTGTCAATCGCATATTAT
GAACTAAACCAGAGGGTTGGAGAGACCTTCCATGCGTACAGCCCTCACTCACTGTAGACGGCTTTACAG
ATCCATCGAACTCGAGAGGTTCTGCTTAGGTTTGGCTCTCAACGTTAACAGAAACGCTACTGTAGAAAT
GACCAGAAAGGCATATAGGAAGGGGAGTGCCTTGTATTACATAGGTGGGAAGTGTGGCCGAGTGCCTA
AGTGATAGTGGCATCTTTGTGCAGAGCCCAACTGTAACCAGAGATACGGCTGGCACCCCGCAGCAGTGT
GCAAAATCCCACCAGGCTGTAACCTGAAGATCTTCAACAACCAAGAATTTGCTGCTCTTCTGGCTCAGTC
TGTTAACCAAGGGTTTTGAGGCCGTTTATCAGCTGACTCGAATGTGACCATAAGAATGAGCTTCGTGAAG
GGGTGGGAGCAGAAATACCGGAGGCAGACAGTAACAAGTACTCCTTGCTGGATTGAACCTCATCTGAATG
GCCCCCTGCAGTGGTTGGACAAAGTATTAACCTCAGATGGGATCCCGTCACTGCGATGCTCAAGCATGTC
CTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_019191

Insert Size: 1404 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).

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_019191.2](#), [NP_062064.1](#)

RefSeq Size: 2626 bp

RefSeq ORF: 1404 bp

Locus ID: 29357

UniProt ID: [O70436](#)

Cytogenetics: 18q12.3

Gene Summary: transcriptional mediator for both activin and TGFbeta [RGD, Feb 2006]
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.