

Product datasheet for **RN216735**

Smad2 (NM_001277450) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad2 (NM_001277450) 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: >RN216735 representing NM_001277450
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTCCTACTTTGCCATTCACTCCGCCAGTGGTGAAGAGACTTCTGGGATGGAAAAAATCAGCCGGTG
 GGTCTGGAGGAGCAGGTGGTGGAGAACAAGTGGACAGGAAGAAAAGTGGTGTGAAAAAGCAGTGAAAAAG
 TCTGGTAAAAAGCTAAAGAAAAAGGACGATTAGATGAGCTTGAGAAAGCCATCACCCTCAGAATTGC
 AATACTAAGTGTGCACCATACCAAGCACTTGCTCTGAAATTTGGGGACTGAGTACAGCAAAATACGGTAG
 ATCAGTGGGACACAACAGGCCTTTACAGCTTCTCTGAACAAACCAGGTCTTGTGATGGTCTCTCAGGT
 GTCTCATCGAAAGGGCTGCCACATGTTATATATTGCCGGCTGTGGCGCTGGCCAGACCTTCACAGCCAT
 CATGAGCTCAAGGCGATCGAGAAGTGGCAATACGCTTTCAGTCTGAAAAAAGATGAAGTGTGTGAACC
 CTTACCCTACCAGGGTGGAGACACCAGTCTTGCCCTCAGTCTTGGTCCCTCGGCACACAGAGATTCT
 AACAGAAGTCCGCTCTGGATGACTATACCCACTCCATTCAGAAAACACAAATTTCCAGCAGGAATT
 GAGCCACAGAGTAATTACATCCCAGAAACACCACCCTGGATATATCAGTGAAGATGGAGAAACTAGTG
 ACCAACAGTTGAACCAAAGTATGGACACAGGCTCTCCGGCTGAAGTGTCTCCTACCCTCTCTCCCTGT
 CAATCACAGCTTGGATTTGCAGCCAGTTACTTATTAGAACCTGCATTTTGGTGTCAATCGCATATTAT
 GAACTAAACCAGAGGGTTGGAGAGACCTTCCATGCGTACAGCCCTCACTCACTGTAGACGGCTTTACAG
 ATCCATCGAACTCGAGAGGTTCTGCTTAGGTTTGGCTCTCAACGTTAACAGAAACGCTACTGTAGAAAT
 GACCAGAAGGCATATAGGAAGGGGAGTGCCTTGTATTACATAGGTGGGGAAGTGTGGCCGAGTGCCTA
 AGTGATAGTCCGATCTTTGTGCAGAGCCCAACTGTAACCAGAGATACGGCTGGCACCCCGCAGAGTGT
 GCAAAATCCCACCAGGCTGTAACCTGAAGATCTTCAACAACCAAGAATTTGCTGCTCTTGGCTCAGTC
 TGTTAACCAAGGGTTTTGAGGCCGTTTATCAGCTGACTCGAATGTGACCATAAGAATGAGCTTCGTGAAG
 GGGTGGGAGCAGAATACCGGAGGCAGACAGTAACAAGTACTCCTTGCTGGATTGAACCTCATCTGAATG
 GCCCCTGCAGTGGTTGGACAAAGTATTAAGTCAAGTGGGATCCCGTCAAGTGGTGGTGGTGGTGGTGGT
CTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001277450
- 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).
- 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:

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_001277450.1](#), [NP_001264379.1](#)

RefSeq Size: 2598 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 (2) differs in the 5' UTR compared to variant 1. 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.