

Product datasheet for **RR212493**

Smad2 (NM_019191) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR212493 representing NM_019191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTCACCTCTGCCATTCACCTCCGCCAGTGGTGAAGAGACTTCTGGGATGGAAAAATCAGCCGGT
 GGTCTGGAGGAGCAGGTGGTGGAGAACAAGTGGACAGGAAGAAAAGTGGTGTGAAAAAGCAGTAAAAAG
 TCTGGTAAAAAGCTAAAGAAAAAGCAGGACGATTAGATGAGCTTGAGAAAGCCATCACCCTCAGAATTGC
 AATACTAAGTGTGCACCATACCAAGCACTTGTCTGAAATTTGGGGACTGAGTACAGCAAAACCGGTAG
 ATCAGTGGGACACAACAGGCCTTACAGCTTCTCTGAACAAACCAGGTCTCTTGTGGTGTCTTTCAGGT
 GTCTCATCGAAAGGGCTGCCACATGTTATATATTGCCGGCTGTGGCGCTGGCCAGACCTTCACAGCCAT
 CATGAGCTCAAGGCGATCGAGAAGTGGCAATACGCTTTCAGTCTGAAAAAAGATGAAGTGTGTGAACC
 CTTACCCTACCAGGGTGGAGACACCAGTCTTGCCCTCCAGTCTTGGTCCCTCGGCACACAGAGATTCT
 AACAGAAGTCCGCTCTGGATGACTATACCCACTCCATTCCAGAAAACAAAAATTTCCAGCAGGAATT
 GAGCCACAGAGTAATTACATCCCAGAAAACACCACCCTGGATATATCAGTGAAGATGGAGAAACTAGT
 ACCAACAGTTGAACCAAGTATGGACACAGGCTCTCCGGCTGAAGTGTCTCCTACCCTCTCTCCCTGT
 CAATCACAGCTTGGATTTGCAGCCAGTACTTATTTCAGAACCTGCATTTTGGTGTCAATCGCATATTAT
 GAATAAACAGAGGGTGGAGAGACCTTCCATGCGTACAGCCCTCACTCACTGTAGACGGCTTTACAG
 ATCCATCGAACTCGAGAGGTTCTGCTTAGGTTTGTCTCCAACGTTAACAGAAACGCTACTGTAGAAAT
 GACCAGAAGGCATATAGGAAGGGGAGTGCCTTGTATTACATAGTGAGGGAAGTGTTCGCGAGTGCCTA
 AGTGATAGTGGCATCTTGTGCAGAGCCCAACTGTAACCAAGATACGGCTGGCACCCCGCAGCAGTGT
 GCAAAAATCCACCAGGCTGTAACCTGAAGATCTTCAACAACCAAGAATTTGCTGCTTCTTGCTCAGTC
 TGTTAACCAAGGGTTTTGAGGCCGTTTATCAGCTGACTCGAATGTGACCATAAGAATGAGCTTCGTGAAG
 GGGTGGGAGCAGAATACCGGAGGCAGACAGTAACAAGTACTCCTTGCTGGATTGAACCTCATCTGAATG
 GCCCCTGCAGTGGTGGACAAAGTATTAAGTCAAGTGGGATCCCGTCAAGTGGTGGTGGTGGTGGTGGT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212493 representing NM_019191
 Red=Cloning site Green=Tags(s)

MSSILPFTPPVVKRLGKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKLKKKTGRLDELEKAITTQNC
 NTKCVTIPSTCSEIWGLSTANTVDQWDTTGLYSFSEQTRSLDGRLQVSHRKLPHVIYCRWRWDLHSH
 HELKAIENCEYAFSLKKDEVCPYHYQVETPVLPPVLVPRHTEILTEPLDDYTHSIPENTNFPAGI
 EPQSNYIPETPPPGYISEDGETSDQQLNQSMGTGSPAELSPPTLSPVNHSLDLQPVYSEPAFWCSIAYY
 ELNQRVGETTFHASQPSLTVDFGTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECL
 SDSAIFVQSPNCNQRYPATVCKIPPGCNLKFNNQEFALLAQSVNQGFVAVYQLTRMCTIRMSFVK
 GWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLQMGSPSVRCSSMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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

MW: 52.2 kDa

Gene Summary: transcriptional mediator for both activin and TGFbeta [RGD, Feb 2006]