

Product datasheet for **RR216735**

Smad2 (NM_001277450) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad2 (NM_001277450) 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



[View online »](#)

ORF Nucleotide Sequence:

>RR216735 representing NM_001277450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTCACCTCTGCCATTCACCTCCGCCAGTGGTGAAGAGACTTCTGGGATGGAAAAATCAGCCGGTG
 GGTCTGGAGGAGCAGGTGGTGGAGAACAAGTGGACAGGAAGAAAAGTGGTGTGAAAAAGCAGTAAAAAG
 TCTGGTAAAAAGCTAAAGAAAAAGGACGATTAGATGAGCTTGAGAAAGCCATCACCCTCAGAATTGC
 AATACTAAGTGTGCACCATACCAAGCACTTGCTCTGAAATTTGGGGACTGAGTACAGCAAAACGGTAG
 ATCAGTGGGACACAACAGGCCTTACAGCTTCTCTGAACAAACCAGGTCTCTTGTGGTCTTTCAGGT
 GTCTCATCGAAAGGGCTGCCACATGTTATATATTGCCGGCTGTGGCGCTGGCCAGACCTTCACAGCCAT
 CATGAGCTCAAGCGATCGAGAAGTGGCAATACGCTTTCAGTCTGAAAAAAGATGAAGTGTGTGAACC
 CTTACCCTACCAGGGTGGAGACACCAGTCTTGCCCTCCAGTCTTGGTCCCTCGGCACACAGAGATTCT
 AACAGAAGTCCGCTCTGGATGACTATACCCACTCCATTCAGAAAAACAAAATTTCCAGCAGGAATT
 GAGCCACAGAGTAATTACATCCCAGAAACACCACCCTGGATATATCAGTGAAGATGGAGAAACTAGT
 ACCAACAGTTGAACCAAAGTATGGACACAGGCTCTCCGGCTGAAGTGTCTCTTACCCTCTCTCCCTGT
 CAATCACAGCTTGGATTTGCAGCCAGTTACTTATTAGAACCTGCATTTTGGTGTCAATCGCATATTAT
 GAATAAACAGAGGGTGGAGAGACCTTCCATGCGTACAGCCCTCACTCACTGTAGACGGCTTTACAG
 ATCCATCGAACTCGAGAGGTTCTGCTTAGGTTGCTCTCAACGTTAACAGAAACGCTACTGTAGAAAT
 GACCAGAAGGCATATAGGAAGGGGAGTGCCTTGTATTACATAGTGAGGGAAGTGTGGCCGAGTGCCTA
 AGTGATAGTGGCAGTCTTGTGCAGAGCCCAACTGTAACCAAGATACGGCTGGCACCCTCGCAGCAGTGT
 GCAAAATCCCACCAGGCTGTAACCTGAAGATCTCAACAACCAAGAATTTGCTGCTCTTCTGGCTCAGTC
 TGTTAACCAAGGGTTTTGAGGCCGTTTATCAGCTGACTCGAATGTGACCCATAAGAATGAGCTTCGTGAAG
 GGGTGGGAGCAGAATACCGGAGGCAGACAGTAACAAGTACTCCTTGCTGGATTGAACCTCATCTGAATG
 GCCCCTGCAGTGGTGGACAAAGTATTAAGTCAAGTGGGATCCCGTCAAGTGGTGGTGGTGGTGGTGGTGGT
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216735 representing NM_001277450
 Red=Cloning site Green=Tags(s)

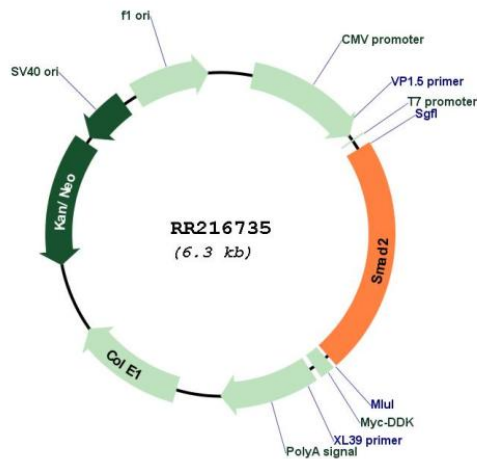
MSSILPFTPPVVKRLGKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKLKKKTGRLDELEKAITTQNC
 NTKCVTIPSTCSEIWGLSTANTVDQWDTTGLYSFSEQTRSLDGRLQVSHRKLPHVIYCRWRWPDLHSH
 HELKAIENCEYAFSLKKDEVCVNPHYQVETPVLPPVLVPRHTEILTELPPLDDYTHSIPENTNFPAGI
 EPQSNYIPETPPPGYISEDGETSDQQLNQSMGTGSPAELSPPTLSPVNHSLDLQPVTYSEPAFWCSIAYY
 ELNQRVGETFHASQPSLTVDFGTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECL
 SDSAIFVQSPNCNQRYPATVCKIPPGCNLKIIFNNQEFALLAQSVNQGFVAVYQLTRMCTIRMSFVK
 GWGAEYRRQTVTSTPCWIELHLNGLQWLDKVLQMGSPSVRCSSMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_001277450

ORF Size:

1401 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_001277450.1](#), [NP_001264379.1](#)

RefSeq Size: 2598 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]