

## Product datasheet for **MR207463**

### Smad2 (NM\_010754) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smad2 (NM_010754) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad2
Synonyms:	7120426M23Rik; Madh2; Madr2; mMad2; Smad-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207463 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGTCACCTCTGCCATTCACCTCCGCCAGTGGTGAAGAGACTTCTGGGATGGAAAAATCAGCCGGTG  
 GGTCTGGAGGAGCAGGTGGTGGAGAGCAGAATGGACAGGAAGAAAAGTGGTGTGAAAAAGCAGTAAAAAG  
 TCTGGTAAAAAGCTAAAGAAAAACAGGACGGTTAGATGAGCTTGAGAAAGCCATCACCCTCAGAATTGC  
 AATACTAAGTGTGCACCATACCAAGCACTTGCTCTGAAATTTGGGGACTGAGTACAGCAAAATACGGTAG  
 ATCAGTGGGACACAACAGGCCTTACAGCTTCTCTGAACAAACCAGGTCTCTTGATGGCCGCTTTCAGGT  
 TTCACACCGGAAAGGTTGCCACATGTTATATATTGCCGGCTCTGGCGCTGGCCGGACCTTCACAGTCAT  
 CATGAGCTCAAGGCAATCGAAAACGCAATATGCTTTTAACTGAAAAAAGATGAAGTGTGTGAAATC  
 CGTACCCTACCAGAGAGTTGAGACCCAGTCTTGCCCTCCAGTCTTAGTGCCTCGGCACACGGAGATTCT  
 AACAGAAGTGCCTCCCTGGATGACTACACCCACTCCATTCCAGAAAACAAAAATTTCCAGCAGGAATT  
 GAGCCACAGAGTAATTACATCCCAGAAAACACCACCACCTGGATATATCAGTGAAGATGGAGAAAACAGTG  
 ACCAACAGTTGAACCAAAGTATGGACACAGGCTCTCCGGCTGAACGTCTCCTACTACTCTCTCTCTGT  
 TAATCACAGCTTGGATTTGCAGCCAGTTACTTACTCGAACCTGCATTCTGGTGTCAATCGCATACTAT  
 GAACTAAACCAGAGGGTTGGAGAGACCTTCCATGCGTACAGCCCTCGCTCACTGTAGACGGCTTCACAG  
 ACCCATCAAACCTCGAGAGGTTCTGCTTAGGCTTGCTCTCCAACGTTAACCGAAATGCCACTGTAGAAAT  
 GACAAGAAGACATATAGGAAGGGGAGTGCCTTGATTACATAGTGGGGAAGTGTGCTGAGTGCCTA  
 AGTGATAGTGAATCTTTGTGCAGAGCCCAACTGTAACCAGAGATACGGCTGGCACCCTGCAACAGTGT  
 GTAAGATCCCACCAGGCTGTAACCTGAAGATCTCAACAACCAAGAATTTGCTGCTCTTCTGGCTCAGTC  
 TGTCAACCAGGGTTTTGAAGCCGTTTATCAGCTAACCCGAATGTGACCATAAGAATGAGTTTTGTGAAG  
 GGCTGGGAGCAGAATATCGGAGGCAGACAGTAACAAGTACTCCTTGCTGGATTGAACCTCATCTGAATG  
 GCCCTCTGAGTGGCTGGACAAAGTATTAACCTCAGATGGGATCCCTTCAGTGGATGCTCAAGCATGTC  
 G

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207463 protein sequence  
 Red=Cloning site Green=Tags(s)

MSSILPFTPPVVKRLLGWKKSSAGSGGAGGGEQNGQEEKWCEKAVKSLVKLKKTRLDELEKAITTQNC  
 NTKCVTIPTSCSEIWGLSTANTVDQWDTTGLYSFSEQTRSLDGRLQVSHRKGLPHVIYCRWRWPDLSH  
 HELKAIENCEYAFNLKKDEVCVNPHYQYRQVETPVLPPVLVPRHTEILTELPPLDDYTHSIPENTNFPAGI  
 EPQSNYIPETPPPGYISEDGETSDQQLNQSMGTGSPAELSPPTLSPVNHSLDLQPVYSEPAFWCSIAYY  
 ELNQRVGETFHASQPSLTVDFGTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECL  
 SDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKFNNQEFALLAQSVNQGFVAVYQLTRMCTIRMSFVK  
 GWGAERYRQVTSTPCWIELHLNGLQWLDKVLTQMGSPSVRCSMS

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

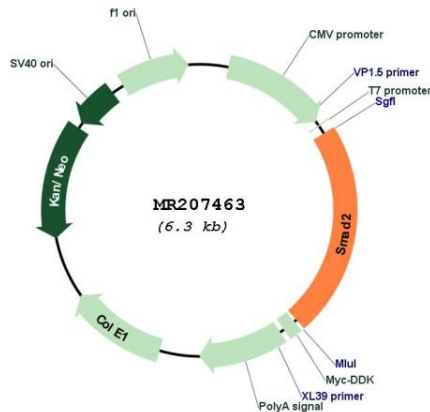


**Cytogenetics:** 18 51.42 cM

**MW:** 52.3 kDa

**Gene Summary:** Receptor-regulated SMAD (R-SMAD) that is an intracellular signal transducer and transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinases. Binds the TRE element in the promoter region of many genes that are regulated by TGF-beta and, on formation of the SMAD2/SMAD4 complex, activates transcription. May act as a tumor suppressor in colorectal carcinoma. Positively regulates PDPK1 kinase activity by stimulating its dissociation from the 14-3-3 protein YWHAQ which acts as a negative regulator (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207463