

Product datasheet for **MC202985**

Smad2 (NM_010754) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad2 (NM_010754) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smad2
Synonyms:	7120426M23Rik; Madh2; Madr2; mMad2; Smad-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC021342
 CCACGCGTCCGGCGCGCGCGGTGGAGGAGCAGCTCGCCAAGCCTGCAGCTCGCGAGCGCCGAGCGAGCC
 TCCCGGAGGGTAGATTTACCGGGCTTTTCTGAGTGTGGATTGTTACCTTTGGTAAGAAAATGTCGTCCA
 TCTTGCCATTCACTCCGCCAGTGGTGAAGAGACTTCTGGGATGGAAAAATCAGCCGGTGGGTCTGGAGG
 AGCAGGTGGTGGAGAGCAGAATGGACAGGAAGAAAAGTGGTGTGAAAAAGCAGTAAAAGTCTGGTGAAA
 AAGCTAAAGAAAACAGGACGGTTAGATGAGCTTGAGAAAGCCATCACCCTCAGAATTGCAATAAGT
 GTGTCACCATACCAAGCACTTGCTCTGAAATTTGGGGACTGAGTACAGCAAATACGGTAGATCAGTGGGA
 CACAACAGGCCTTTACAGCTTCTCTGAACAAACCAGGTCTTGTATGGCGCTTTCAGGTTTCACACCGG
 AAAGGGTTGCCACATGTTATATATTGCCGCTCTGGCGCTGGCCGGACCTTCACAGTCATCATGAGCTCA
 AGGCAATCGAAAACGCGAATATGCTTTTAACTGAAAAAAGATGAAGTGTGTAAATCCGTACCACTA
 CCAGAGAGTTGAGACCCAGTCTTGCTCCAGTCTTAGTGCCTCGGCACACGGAGATTCTAACAGAACTG
 CCTCCCCTGGATGACTACACCCACTCCATTCCAGAAAACACAAATTTCCAGCAGGAATTGAGCCACAGA
 GTAATTACATCCAGAAACACCACCCTGGATATATCAGTGAAGATGGAGAAACAAGTGACCAACAGTT
 GAACCAAAGTATGGACACAGGCTCTCCGGCTGAACTGTCTCCTACTCTCTCTCTGTTAATCACAGC
 TTGGATTTGCAGCCAGTTACTTACTCGGAACCTGCATTCTGGTGTCAATCGCATACTATGAACTAAACC
 AGAGGGTTGGAGAGACCTTCCATGCGTACAGCCCTCGCTCACTGTAGACGGCTTCACAGACCCATCAAA
 CTCGGAGAGGTTCTGCTTAGGCTTGCTCTCCAACGTTAACCGAAATGCCACTGTAGAAATGACAAGAAGA
 CATATAGGAAGGGGAGTGCCTTGTATTACATAGGTGGGGAAGTGTGGTGTGAGTGCCTAAGTGATAGTG
 CAATCTTTGTGCAGAGCCCAACTGTAACCAGAGATACGGCTGGCACCCTGCAACAGTGTGTAAGATCCC
 ACCAGGCTGTAACCTGAAGATCTTCAACAACCAAGAATTTGCTGCTCTTCTGGCTCAGTCTGTCAACCAG
 GGTTTTGAAGCCGTTTATCAGCTAACCCGAATGTGCACCAATAAGAATGAGTTTTGTGAAGGGCTGGGGAG
 CAGAATATCGGAGGCAGACAGTAACAAGTACTCCTTGTGGATTGAACTCATCTGAATGGCCCTCTGCA
 GTGGCTGGACAAAAGTATTAACCTCAGATGGGATCCCTTCAGTGGGATGCTCAAGCATGCTGTAACCCAT
 CAAAGACTCGCTGTAACAGCTCCTCCGTAGTATTCATGTATGATCCGGTGGACTGTTTGCTATCCAA
 AAATTCAGAGCAAAAACAGCACTTGAGGTCTCATCAGTTAAAGCACCTTGTGGAATCTGTTTCCTATAT
 TTGAATATTAGATGGGAAAATTAGTGTCTAGAAATGCCCTCCCCAGCGGGGAAAAAGAAGACTTAAAGAC
 TTAATGATGTCTTGTGGGCATAAGACAGTATCCCAAAGTTATTAATAACAGTAGTAGTTGTGTACAGG
 TAATGTGTCCAGACCCAGTATTGCAGTACTATGCTGTTTGTATACATTCTTAGTTTGCATAAATGAGGTG
 TGTGTGCTGCTTCTTGGTCTAGGCAAGCCTTTATAAAATTACAGTATCTAATCTGTTATTCCCACTTCTC
 CGTTATTTTTGTGCTTTTTTAATATATAATATATATATCAAGATTTTCAAATATCATTTAGAAGCA
 GATTTTCTTGTAGAAACTAATTTTTCTGCCTTTACCAAAAATAAACAACCTCTTGGGGGAAGACAAGT
 GGATTAACCTGGAAAAAATTT

Restriction Sites: RsrII-NotI

ACCN: NM_010754

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: [BC021342](#), [AAH21342](#)

RefSeq Size: 2133 bp

RefSeq ORF: 1404 bp

Locus ID: 17126

UniProt ID: [Q62432](#)

Cytogenetics: 18 51.42 cM

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]

Transcript Variant: This variant (1) encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform. 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.