

Product datasheet for **MC204474**

Smad6 (NM_008542) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad6 (NM_008542) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smad6
Synonyms:	b2b390Clo; Madh6
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC047280
 GTTGAGCGGTCCCAGCCATCGTGATCCATGTAGCCCGCTGGTCCCTCGCGGACTGAGGCTCAACACGCG
 CGTGTTCGCGCCCGCCCGCCCGCCCGCTTGGCCCGCGCGAGCTCCCTCATGTTGCAGCCCTGCGGTGCC
 CCTTCGACGACAGGCTGTGCGCGGTCTGCACGGCGCCCGCGGCAGAGCTTCATGTGGGGCTGCGGCCCG
 CTCAGCCGGCGCCTCGTTGAGGGAACGGACCCCGGTAACCGGAGACCGCTCCCTCCCACCACCCAG
 GCGCAAAGGGTATCGTATGTTCAAGTCTAAACGCTCGGGCTGGTGCGGCGACTTTGGCGAAGTCGTGT
 GGTCCCTGATCGGGAGGAAGGCAGCGGGCGCGGCTGGTGTGACAGGATGGGAGCTGGGCAGCCGA
 GCTGAGCCTGCCCGCGGGCACGAGAGGGCGGAGGCTGCAGCCGCTCCGAAGTCCGCTCGGTAGCCCGC
 GCGGCCCGGGACGCGGTGGGACCGCGAGGCGCCGATCGCGGCAGGCGCCGCGCACAGGGGGCT
 CCCGAGGCCCGTGTGCGAGTCGGGGGCCGGGGTGGGGCTCCCGCTGGATGTGGCGGAGCCTGGAGGC
 CCAGGCTGGTGCCTGAGAGTACTGCGAGACGGTGACCTGCTGTCTTCTCCGAACGGGACGCAGCAG
 GCGCGCCCGGGACTCTGGCGATCCCAAGCCAGACAGTCCCGGAGCCGGAGGAGGGCGCGGGCTCG
 GAGTCGCAAGCCGCTCGGACTGCTGCTTCTGGAGCAGGAGCTCAAGACGGTCACGACTCGCTGCTC
 AAGAGGCTCAAGGAGCGTTCGCTGGACACGCTGTTGGAGGCTGTGGAGTCCCAGGCGGCGTACCGGGC
 GCTGCGTGTGGTCCCGCGCCGACCTCCGCTTGGGCGGCCAGCCCGCCACCGCAGTGTGCTCGG
 CCGCTTTCGCTGGCCAGACCTGCAGCACGAGTGGAGCTGAAACCCCTGTGCGGCTGCCACAGCTTT
 ACCGCGCCCGCCGACGGGCCACGGTGTGTGCAACCCCTACCACTTCAGCCGGCTCGCGGGCCAGAAT
 CACCGCGCCCCCTATTCTCGGCTGTCTCCTCCTGACCAGTACAAGCCACTGGATCTGTCCGATTCTAC
 ATGTCTTACACTGAAACCGAGGCCACCAACTCCCTCATCACTGCTCCGGTGAATTCTCAGATGCCAGC
 ATGTCTCCGGATGCCACCAAGCCGAGCCACTGGTGCAGCGTGGCGTACTGGGAGCACCGGACACGCGTGG
 GCCGCTCTATGCGGTGTACGACCAGGCTGTCAGCATCTTCTACGACCTACCTCAGGGCAGCGGCTTCTG
 CCTGGGCCAGCTCAACCTGGAGCAGCGCAGTGTGGGCTACAACCGGGCGAGCACCCCATCTTCGCAACT
 ATACTGCTCAGCAAGGAGCCAGACGGCGTGTGGGCTACAACCGGGCGAGCACCCCATCTTCGCAACT
 CCCCAGCCTGGATGCGCCCGGAGGCCGCGCCCTGGTGTGCGCAAGGTGCCACCGGGTTACTCCATCAA
 GGTGTTGACTTTGAGCGCTCATGGCTGTGACGACGACGACGCGCTCACGGCCCTACGACCCGCAC
 AGTGTGCGCATCAGTTTCGCAAGGGCTGGGGACCCTGCTACTCACGACAGTTCATCACCTCCTGCCCT
 GTTGGCTGGAGATCCTACTCAACAACCACAGATAGCAATGCGGCTGCCACTGTGCCGAGCGTCCCCAA
 CCTCTGGGGGCCAGCGCCAGAGACACCACCCAGGGACAACCTCGCCCTCCCCCAGATATCATCTAC
 CTAGATTTAATAAAAAGTTTTATATATTATATGAAAATATATATTATACTTGAATTATGGAGTCATTTT
 TACAACGTAATTATTTATATATGGTGAATGTGTATATGGAGAAACAAGAAAGACGACTTTGGCTTG
 TAATTCCTTCAATACAGATATATTTTTTCTTTCTTTCCCTCTTTCTTTTTTAAAGAGAATTATACAGT
 AGAACTAGGTGGAAAGCCTAGGTTTGGTGTATGGTTTTTTTTAAAAAATATTAATGCCAGACCAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008542
Insert Size: 1488 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC047280](#), [AAH47280](#)

RefSeq Size: 2208 bp

RefSeq ORF: 1488 bp

Locus ID: 17130

UniProt ID: [O35182](#)

Cytogenetics: 9 C

Gene Summary: Binds to regulatory elements in target promoter regions (By similarity). May block the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding (By similarity). Acts as a mediator of TGF-beta and BMP anti-inflammatory activity. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of proinflammatory genes. [UniProtKB/Swiss-Prot Function]