

## Product datasheet for **MC216265**

### **Smad1 (NM\_008539) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smad1 (NM_008539) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smad1
Synonyms:	AI528653; Madh1; Madr1; Mlp1; MusMLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216265 representing NM\_008539  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAATGTGACCAGCTTGTTCATTCACAAGTCCAGCTGTGAAGAGACTCCTTGGTGGAACAGGGCG  
 ATGAAGAAGAGAAATGGGCAGAGAAAGCTGTGGACGCTTTGGTGAAGAACTGAAGAAGAAGAAAGGGC  
 CATGGAAGAGCTGGAGAAGGCCCTGAGCTGCCCTGGACAGCCGAGTAAGTGCCTACCATTCCTCGTCC  
 CTGGATGGCAGGTTGCAGGTGTCCACCGGAAGGGACTACCTCATGTCAATTTATTGCCGTGTGTGGCGCT  
 GGCCCGACCTCCAGAGCCACCATGAAGTGAAGCCTCTGGAATGCTGTGAGTTCCCATTTGGTTCCAAGCA  
 GAAGGAGGTCTGCATCAACCCCTACCACTATAAGCGAGTGGAGAGCCGGTTCTCCCGCCGGTGTGGTT  
 CCGAGGCACAGCGAGTACAATCCTCAGCACAGCCTTCTGGCTCAGTTCGCAACCTGGGACAAAATGAGC  
 CTCACATGCCACTGAACGCCACGTTCCAGACTCTTCCAGCAGCCCAACAGCCACCCGTTCCCCCACTC  
 CCCAACAGCAGTACCCCAACTCTCCTGGCGGCAGCAGCAGCACCTACCCTCACTCCCAACAGCTCA  
 GACCCGGGCAGCCCTTTTCAGATGCCAGCTGACACACCCCACTGCTTACCTGCCTCCTGAAGACCCCA  
 TGGCCCAAGGATGGCTCTCAGCCATGGACACGAACATGATGGCGCCTCCACTGCCCGCTGAAATCAGCAG  
 AGGAGATGTTACGGCAGTTGCTTACGAGGAACCAAACTGGTGTCTATTGTGTACTATGAGCTCAAC  
 AACCGTGTGGGTGAAGCGTTCACGCCTCGTCCACCAGCGTGTGGTGGATGGTTTACAGATCCGTCCA  
 ACAATAAGAACCCTTCTGCCTTGGCTTGTCTCCAACGTTAACCGGAATCCACTATTGAAAACACCAG  
 GCGACATATTGGAAAGGAGTCCACCTTATTACGTTGGAGGAGAGGTGTATGCGGAATGCCTCAGTGAC  
 AGCAGCATCTTCGTGCAGAGCCGGAAGTCAACTACCACCAGCGTTCACCCCAACCCGTTCTGCAAGA  
 TCCCGAGCGGGTGCAGCTTGAAAATCTCAACAACCAAGAGTTTGCTCAGCTACTGGCGCAGTCTGTGAA  
 CCACGGGTTTCGAGACCGTGTATGAAGTCAACAAATGTGCACTATTCGGATGAGCTTCGTGAAGGGTTGG  
 GGAGCCGAATACCACCGCAGGATGTTACCAGCACCCCTGCTGGATTGAGATCCATCTGCATGGCCCTC  
 TCCAGTGGCTGGATAAGGTTCTGACCCAGATGGGCTCACCCACAATCTATTTTCATCCGTGTCTTAA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2009\\_c05.zip](https://cdn.origene.com/chromatograms/ja2009_c05.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008539

**Insert Size:** 1398 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](mailto: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](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC058693</a></u> , <u><a href="#">AAH58693</a></u>
<b>RefSeq Size:</b>	3133 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	17125
<b>UniProt ID:</b>	<u><a href="#">P70340</a></u>
<b>Cytogenetics:</b>	8 C1
<b>Gene Summary:</b>	Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD1 is a receptor-regulated SMAD (R-SMAD) (By similarity). May play a role in the initiation and maintenance of spermatogenesis. SMAD1/OAZ1/PSMB4 complex mediates the degradation of the CREBBP/EP300 repressor SNIP1 (By similarity). May act synergistically with SMAD4 and YY1 in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression (PubMed:15329343).[UniProtKB/Swiss-Prot Function]