

Product datasheet for **MG226823**

Smad1 (NM_008539) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad1 (NM_008539) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smad1
Synonyms:	AI528653; Madh1; Madr1; Mlp1; MusMLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226823 representing NM_008539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAATGTGACCAGCTTGTTCATTCACAAGTCCAGCTGTGAAGAGACTCCTTGGGTGAAACAGGGCG
 ATGAAGAAGAGAAAATGGGCAGAGAAAGCTGTGGACGCTTTGGTGAAGAACTGAAGAAGAAGAAAGGGC
 CATGGAAGAGCTGGAGAAGGCCCTGAGCTGCCCTGGACAGCCGAGTAAGTGCCTCACCATTCTCGCTCC
 CTGGATGGCAGGTTGCAGGTGTCCACCAGGAAAGGACTACCTCATGTCAATTTATTGCCGTGTGTGGCGCT
 GGCCCGACCTCCAGAGCCACCATGAAGTGAAGCCTCTGGAATGCTGTGAGTTCCCATTTGGTTCCAAGCA
 GAAGGAGGTCTGCATCAACCCCTACCCTATAAGCGAGTGGAGAGCCGGTTCTCCCGCCGGTGTGGTT
 CCGAGGCACAGCGAGTACAATCCTCAGCACAGCCTTCTGGCTCAGTTCGCAACCTGGGACAAAATGAGC
 CTCACATGCCACTGAACGCCACGTTCCAGACTCTTCCAGCAGCCCAACAGCCACCCGTTCCCCACTC
 CCCAACAGCAGTACCCCAACTCTCCTGGCGGCAGCAGCAGCACCTACCCTCACTCCCCAACAGCTCA
 GACCCGGGCAGCCCTTTTCAGATGCCAGCTGACACACCCCCACCTGCTTACCTGCCTCCTGAAGACCCCA
 TGGCCAGGATGGCTCTCAGCCATGGACACGAACATGATGGCGCCTCCACTGCCCGCTGAAATCAGCAG
 AGGAGATGTTACGGCAGTTGCTTACGAGGAACCAAACTGGTGTCTATTGTGTACTATGAGCTCAAC
 AACCGTGTGGGTGAAGCGTTCCACGCCTCGTCCACCAGCGTGTGGTGGATGGTTTACAGATCCGTCCA
 ACAATAAGAACCCTTCTGCCTTGGCTTGTCTCCAACGTTAACCGGAATCCACTATTGAAAACACCAG
 GCGACATATTGGAAAGGAGTCCACCTTATTACGTTGGAGGAGAGGTGTATGCGGAATGCCTCAGTGAC
 AGCAGCATCTTCGTGCAGAGCCGAACTGCAACTACCACCAGGCTTTACCCCAACCCGCTCTGCAAGA
 TCCCAGCGGGTGCAGCTTGAAAATCTCAACAACCAAGAGTTTGCTCAGCTACTGGCGCAGTCTGTGAA
 CCACGGGTTTCGAGACCGTGTATGAACTACCAAAATGTGCACTATTCGGATGAGCTTCGTGAAGGGTTGG
 GGAGCCGAATACCACCGCAGGATGTTACCAGCACCCCTGCTGGATTGAGATCCATCTGCATGGCCCTC
 TCCAGTGGCTGGATAAGGTTCTGACCCAGATGGGCTCACCCACAATCTATTTTCATCCGTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226823 representing NM_008539
 Red=Cloning site Green=Tags(s)

MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKGAMEELEKALSCPGQPSNCVTIPRS
 LDGRLQVSHRGLPHVIYCRVWRWPDLQSHHELKPLECCEFPFGSKQKEVCINPYHYKRVESVLPVPLV
 PRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPNSHPPHSPNSSYPNSPGSSSTYPHSPTSS
 DPGSPFQMPADTPPPAYLPPEDPMAQDGSQPMDTNMMAPPLPAEISRGDVQAVAYEYPKHWCISIVYELN
 NRVGEAFHASSTSVLVDGFTDPSNNKNRFCLGLLSNVNRNSTIENTRRRHHGKGVHLYYVGGVEVYAECLSD
 SSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIIFNNQEFQLLAQSVNHGFETVYELTKMCTIRMSFVKGW
 GAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTMGSPHNPISSVS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_008539

ORF Size: 1395 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](#)

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:

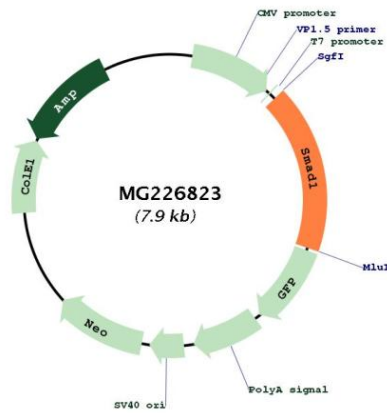
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_008539.4](#)

RefSeq Size: 3133 bp
 RefSeq ORF: 1398 bp
 Locus ID: 17125
 UniProt ID: [P70340](#)
 Cytogenetics: 8 C1

Gene Summary: 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]

Product images:



Circular map for MG226823