

Product datasheet for **RR215428**

Smad7 (NM_030858) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad7 (NM_030858) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad7
Synonyms:	Madh7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR215428 representing NM_030858
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCAGGACCAAACGATCTGCGCTCGTCCGGCTCTCTGGAGGAGCCGTGCGCCCGCGGCGAGGACG
 AGGAGGAGGGCGTGGGGGTGGCGGCGGCGAGGCGACCTGCGGGGAGAAGGGGCGACGGACGGCCGGC
 TTATGGGGCTGGTGGCGCGGTGCGGGCAGGGCTGGCTGCTGCCTGGGTAAAGCAGTCCGAGGTGCCAAA
 GGTCAACCACATCCCATCCCCATCCTCGGTGCCGGGCGGCCGGGGCGCCGAGGCGGATCTGAAGG
 CGCTCACGCACTCGGTGCTCAAGAACTCAAGGAGCGGCAGCTGGAGCTGCTGCTCAGGCCGTGGAGTC
 CCGCGCGGTACGCGCACCGGTGCTCCTGCTGCCCGGCCGCTGGACTGCAGGCTGGCCCGGGGGCG
 CCCGCCAGCGCAGCCCGCGCAGCCGCCCTCGTCTACTCGCTCCCCCTCCTGCTGTGCAAAGTGTTC
 GGTGGCCGGATCTCAGGCATTCCTCGAAGTCAAGAGGCTGTGTTGCTGTGAATTTACGGGAAGATCAA
 CCCCAGCTGGTGTGCTCAACCCCATCACCTTAGTCGACTCTGTGAAGTACAGTCTCCCCCTCCTCCT
 TACTCCAGATACCGATGGATTTCTCAAACCACTGCAGACTGTCCAGACGCTGTACCTTCTCCGATG
 AAACCGGGGAACGAATTATCTGGCCCTGGGGGCTTTCAGATCCCAACTTCTCTGGAGCCTGGGGA
 TCGGTCACTGGTGCCTGGTGCATACTGGGAGGAGAAGACTCGAGTGGGAGGCTCTACTGTGTCCAA
 GAGCCCTCCCTGGATATCTTATGATCTACCTCAGGGGAATGGCTTTTGCCTCGACAGCTCAATTCGG
 ACAACAAGAGTCAGCTGGTACAGAAAGTGGAGGACAAGATCGGCTGTGGCATCCAGCTGACAAGGGAAGT
 GGATGGCGTGTGGGTTTACAACCGCAGCAGTTACCCCATCTTCAAGTCCGCCACACTGGACAACCCG
 GACTCCAGGACGCTGTTGGTGCACAAAGTGTCCCTGGTTTCTCCATCAAGGCTTTTACTATGAAAAGG
 CCTACAGCCTGCAGCGGCCCAATGACCAGAGTTCATGCAGCAGCCATGGACGGGCTTACCAGTGCAGAT
 TAGCTTCGTGAAGGGCTGGGGCCAGTGTACACCCGCCAGTTCATCAGCAGTTGCCCGTGTGGTGGAG
 GTCATCTTCAACAGCCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215428 representing NM_030858
 Red=Cloning site Green=Tags(s)

MFRTKRSALVRRLLWRSRAPGGEDEEEVGGGGGGDLRGEGATDGRAYGAGGGGAGRAGCCLGKAVRGAK
 GHHHPHPSSGAGAAGGAEADLKALTHSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLCDRLGPGA
 PASAQPAQPPSSYSLPLLLCKVFRWDLRHSSEVKRLCCCESYGKINPELVCCNPHHL SRLCELESPPPP
 YSRYPMDFLKPTADCPDVPSSDETGGTNYLAPGGLSDSQQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQ
 EPSLDIFYDL PQNGFCLGQLNSDNKSQLVQKVRKIGCGIQLTREVDGVWVYNRSSYPIFKSATLDNP
 DSRTLLVHKVFPFGS IKAFDYKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCYTRQFISSPCWLE
 VIFNSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3210_d03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_030858

ORF Size: 1278 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](#)

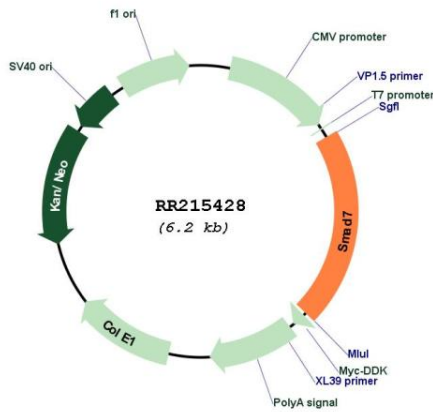
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_030858.1](#), [NP_110485.1](#)

RefSeq Size: 4311 bp
 RefSeq ORF: 1281 bp
 Locus ID: 81516
 UniProt ID: [O88406](#)
 Cytogenetics: 18q12.2
 MW: 46.5 kDa
 Gene Summary: negative regulator of TGF-beta and activin [RGD, Feb 2006]

Product images:


Circular map for RR215428