

Product datasheet for **RN205918**

Smad4 (NM_019275) Rat Untagged Clone

Product data:

| | |
|---------------------------|--------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Smad4 (NM_019275) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Smad4 |
| Synonyms: | Madh4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN205918 representing NM_019275
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAATATGTCTATTACAAATACACCGACAAGCAATGACGCCTGTCTGAGCATTGTACACAGTTTGA
TGTGCCACAGACAAGGTGGAGAGAGTGAGACATTTGCCAAAAGAGCAATTGAGAGTCTGGTAAAGAAGCT
GAAAGAGAAGAAAAGATGAACTGGATTCTTTAATAACAGCTATCACTACAAATGGAGCTCACCCAGCAAG
TGTGTCCACATACAGAGAACACTGGATGGACGACTGCAGGTGGCTGGTCGGAAAGGATTTCTCATGTGA
TCTATGCCCGTCTGTGGAGGTGGCTGATCTACACAAGAACAACAAAACATGTTAAATATTGTGAGTA
TGCATTTGACTTAAAATGTGATAGCGTCTGTGTAACCCATATCACTATGAGCGGTTGTCTCACCTGGA
ATTGATCTCTCTGGATTAACACTGCAGAGTAATGCTCCACCAAGTATGTTAGTGAAGGATGAATATGTTT
ATGACTTTGAAGGACAGCCATCCTTACCCACGGAAGGACATTGATTCAAACATCCAACATCCACCAAG
TAATCGCGCATCCACGGAGAGCTACAGCGCCCCAGCTCTGTTAGCCCCATCAGAGTCTAATGCCACCAGT
ACCACCAACTTCCCAACATTCTGTGGCTTCCACAAGTCAGCCGGCCAGCATTCTGGCAGGCAGCCATA
GTGAAGGACTGTTGCAGATAGCTTCAGGGCCTCAGCCAGGACAGCAGCAGAATGGATTCAGTCTCAGCC
AGCTACTTACCACCATAACAGCACTACCACCTGGACTGGAAGTAGGACTGCACCATACACACCTAATTTG
CCTCACCACAAAACGGCCATCTTCAGCACCACCCGCCTATGCCGCCCATCCTGGACATTAAGTGGCCGG
TTCACAATGAGCTTGCAATCCAGCTCCCATTTCCAATCATCTGCTCCTGAATATTGGTGTCCATTGC
TACTTTGAAATGGATGTTTCAAGTAGGAGAGACATTTAAAGTCCCTTCAAGCTGTCTATTGTAAGTGTG
GATGGATACGTGGATCCTTCTGGAGGAGATCGCTTTTGCCTGGTCAACTCTCCAATGTCCACAGGACAG
AAGCTATTGAGAGAGCAAGTTGCACATAGGCAAAGGAGTGCAGTTGGAGTGTAAAGGTGAAGGGGACGT
GTGGGTACAGGTGCCTCAGTGACCACGCCGCTTCTGTGCAGAGTTACTACCTGGACCGTGAAGCTGGCCGA
GCACCTGGTGACGCCGTCCACAAGATCTACCCGAGTGCATATATAAAGGTCTTTGATTTGCGGCAGTGT
ACCGGCAGATGCAGCAGCAGGCGGCCACCGCGCAAGCCGAGCTGCTGCCAGGGCGCAGCTGTGGCAGG
AAACATCCCTGGTCTGGTCCGTAGGTGGAATAGCCCCGGCCATCAGTCTGTCTGCTGCTGCTGGCATT
GGTGTAGACGACCTCCGGCGCTTGTGCATACTCAGGATGAGCTTCGTGAAGGGCTGGGGCCAGACTACC
CGAGACAGAGCATCAAAGAAACCCCGTGTGGATTGAGATTCACCTCCACCGAGCTCTGCAGCTCCTGGA
TGAAGTCTGCACACCATGCCATTGCGGACCCACAGCCTTAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3106_c09.zip

Restriction Sites: SgfI-MluI

ACCN: NM_019275

Insert Size: 1659 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.

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: [NM_019275.3](#), [NP_062148.1](#)

RefSeq Size: 3056 bp

RefSeq ORF: 1659 bp

Locus ID: 50554

UniProt ID: [O70437](#)

Cytogenetics: 18q12.2

Gene Summary: transduces signal from TGF-beta; deletion of human homolog gene is associated with pancreatic carcinomas [RGD, Feb 2006]