

Product datasheet for **RN206397**

Smad5 (NM_021692) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad5 (NM_021692) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Smad5
Synonyms:	Madh5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN206397 representing NM_021692
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGTCAATGGCCAGCCTGTTTTCTTCTCACTAGTCCAGCCGTGAAGCGATTGTTGGGCTGGAACAAG
GTGATGAGGAAGAGAAATGGGCAGAAAAGGCCGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG
CGCCATGGAGGAGTTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTCACTATCCCCAGG
TCCTTGGACGGCCGTTTGAAGTCTCTCACAGGAAAGGCTTGCCACGTTATATATTGCCGTGTTTGGC
GCTGGCCAGATTGCAGAGCCATCATGAGCTAAAGCCTTTGGATATTTGTGAGTTTCTTTTGGATCGAA
GCAAAAAGAAGTTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTGTTA
GTGCCTCGTCACAACGAATCAATCCCCAGCACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG
AGCCGCACATGCCCCAGAATGCCAGTTTCTGATTCTTCCACCAGCCCAACAGCACTCTTTCCCTT
ATCTCCTAACAGCCCCTATCCTCCTTCCCCTGCTAGCAGCACATATCCCACTCCCCTGCAAGCTCCGGA
CCAGGAAGTCCATTTCAACTCCCAGCTGATACCCCTCCCCTGCCTATATGCCACCTGACGATCAGATGG
GTCAGGATAACTCCCAGCCTATGGACACAAGCAACAACATGATTCTCAGATCATGCCCAGCATATCTAG
CAGAGATGTTCAGCCTGTTGCCTATGAAGAGCCCAAACTGGTGTTCGATTGTGTACTATGAAGTGAAC
AACCGTGTGCGGGAAGCTTTCCATGCGTCTTCCACCAGTGTGTTAGTAGACGGGTTTACAGACCCTGCCA
ATAACAAGAGCCGCTTCTGCTTGGGGCTGCTGTCCAACGTTAATCGAACTCAACCATCGAGAACCAG
GCGGCACATCGGGAAGGTGCCATCTATACTACGTTGGTGGGGAGGTGTATGCCGAGTGTCTTAGTGAC
AGCAGCATCTTTGTTTCCAGAGTAGAACTGCAACTTTACCATGGCTTCCACCCACCACCGTCTGTAAAG
TTCCCAGCAGCTGCAGCCTCAAAATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAAGTCAA
CCATGGGTTTGGAGCTGTGTATGAGCTACCAAGATGTGTACCATTGCAATGAGTTTTGTCAAGGCTGG
GGAGCAGAGTACCACCGACAGGATGTAACCACTCCATGCTGGATTGAGATTCACCTCCATGGGCCTC
TGCACTGGCTGGATAAAGTCTGACCCAGATGGCTCTCCGCTGAACCCATTCTTCTGTTTCA TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_021692

Insert Size: 1398 bp

OTI Disclaimer: 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_021692.1](#), [NP_067724.1](#)
RefSeq Size: 1685 bp
RefSeq ORF: 1398 bp
Locus ID: 59328
UniProt ID: [Q9R1V3](#)
Cytogenetics: 17p14
Gene Summary: may play a role in the healing of bone fractures [RGD, Feb 2006]