

Product datasheet for **RR206397**

Smad5 (NM_021692) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR206397 representing NM_021692
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGTCATAGGCCAGCCTGTTTTCTTCACTAGTCCAGCCGTGAAGCGATTGTTGGGCTGGAACAAG
 GTGATGAGGAAGAGAAATGGGCAGAAAAGGCCGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG
 CGCCATGGAGGAGTTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTCACTATCCCCAGG
 TCCTTGGACGGCCGTTTGAAGTCTCTCACAGGAAAGGCTTGCCACGTTATATATTGCCGTGTTTGGC
 GCTGGCCAGATTTGCAGAGCCATCATGAGCTAAAGCCTTTGGATATTTGTGAGTTTCTTTTGGATCGAA
 GCAAAAAGAAGTTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTGTTA
 GTGCCCTCGTCACAACGAATCAATCCCCAGCACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG
 AGCCGCACATGCCCCAGAATGCCAGTTTCTGATTCTTCCACCAGCCCAACAGCACTCTTTCCCTT
 ATCTCCTAACAGCCCCTATCCTCCTTCCCTGCTAGCAGCACATATCCCACTCCCTGCAAGCTCCGGA
 CCAGGAAGTCCATTTCAACTCCCAGCTGATACCCCTCCCCTGCCTATATGCCACCTGACGATCAGATGG
 GTCAGGATAACTCCCAGCCTATGGACACAAGCAACAACATGATTCCTCAGATCATGCCCAGCATATCTAG
 CAGAGATGTTACGCTGTTGCCTATGAAGAGCCCAAACTGGTGTTCGATTGTGTACTATGAAGTGAAC
 AACCGTGTCCGGGAAGCTTTCCATGCGTCTTCCACCAGTGTGTTAGTAGACGGGTTTACAGACCCTGCCA
 ATAACAAGAGCCGCTTCTGCTTGGGGCTGCTGTCCAACGTTAATCGCAACTCAACCATCGAGAACCAG
 GCGGCACATCGGGAAGGTGTCCATCTATACTACGTTGGTGGGGAGGTGTATGCCGAGTGTCTTAGTGAC
 AGCAGCATCTTTGTTTCAAGTAGAAGTGAAGTTCACCATGGCTTCCACCCACCACCGTCTGTAAAGA
 TTCCCAGCAGCTGCAGCCTCAAAATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAAGTCAA
 CCATGGGTTTGAAGCTGTGTATGAGCTACCAAGATGTGTACCATTTCGAATGAGTTTTGTCAAGGCTGG
 GGAGCAGAGTACCACCGACAGGATGTAACCACTACTCCATGCTGGATTGAGATTCACCTCCATGGGCCTC
 TGCACTGGCTGGATAAAGTCTGACCCAGATGGCTCTCCGCTGAACCCCATTTCTTCTGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206397 representing NM_021692
 Red=Cloning site Green=Tags(s)

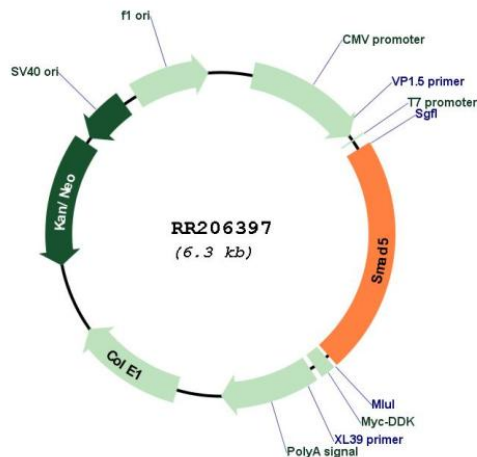
MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKLKKKKGAMEELEKALSSPGQPSKCVTI
 PRLDGRLLQVSHRKLPHVIYCRVWRWPDLSHHEKPLDICEFPFGSKQKEVCINPYHYKRVESPLPPVL
 VPRHNEFPQHSLLVQFRNLSHNEPHMPQNAFPDSFHQPNSTPFPLSPNSPYPPSPASSTYPNSPASSG
 PGSPFQLPADTPPPAYMPPDDQMGQDNSQPMDSNNMIPQIMPSSSRDVPVAYEPEKHWCSIVYVELN
 NRVGEAFHASSTSVLVDGFTDPANNKSRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGVEVYAECLSD
 SSIFVQSRNCFHHGFHPTTVCKIPSSCSLKIIFNNQEFQLLAQSVNHGFEAVYELTKMCTIRMSFVKGM
 GAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLQMGSPLNPISSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_021692

ORF Size:

1395 bp

OTI Disclaimer:

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_021692.1](#), [NP_067724.1](#)

RefSeq Size: 1685 bp

RefSeq ORF: 1398 bp

Locus ID: 59328

UniProt ID: [Q9R1V3](#)

Cytogenetics: 17p14

MW: 52.2 kDa

Gene Summary: may play a role in the healing of bone fractures [RGD, Feb 2006]