

Product datasheet for **RR211598**

Smad6 (NM_001109002) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad6 (NM_001109002) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR211598 representing NM_001109002
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCAAGTCTAAACGCTCGGGCTGGTGCGGCGACTTTGGCGAAGTCGTGTGGTCCCTGATCGGGAGG
 AAGGCAGCGGGCGCGGCTGTGGTGGCGACGAGGATGGGAGCCTGGGCAGCCGAGCTGAGCCTGCCCGCG
 GGCACGAGAGGGCGGAGGTTGCGGCCGCTCCGAAGTCCGCTCGGTAGCCCCGCGGCGGCTCCGGGACCG
 GTGGGACCGCGAGGCGCCCTGATCGCGGCAGGCGCCGCGCACAGGGGCCCCCGAGGCCCGTGTGCG
 AGCCGGGGCCCGAGCTGGGGCTCCCCGCTGGATGTGGTGGAGCCTGGAGGCCCGGGCTGGCTGCCTGA
 GAGTACTGCGAGACGGTACTTGTGTCTTCTCCGAGCGGGACGCTGCAGGCGGCCCGGGACTCT
 GCGCATCCCCAAGCCAGGCAGTCCCCGAGCCGAGGAGGGCGGGCCCTCGGAGTCGCGAAGCCCGCT
 CGCGGCTGCTGCTTCTGGAGCAGGACTCAAGACAGTCACGTAAGTCTGCTCAAGCGGCTCAAGGAGCG
 TTCGCTGGACACACTGTTGGAGGCTGTAGAGTCCGAGGCGGGCTGCCGGCGGGCTGCGTGTGGTCCG
 CGCGCCGACTCCGCTCTGGGCGGCCAGCCCGCGCCACCCGAGCTGCTGCTCGGTGCGCTGTTCCGCTGGC
 CAGACCTGCAGCACGCACTGGAGCTGAAACCCCTGTGCGGCTGCCACAGCTTTGCCGCCCGCGCTGACGG
 GCCACGGTGTGTTGCAACCCCTACCACTTCAGCCGGCTCTGCGGGCCAGAATCACCGCCGCCCCCTAT
 TCTCGGCTGTCTCCTCTGACCAGCACAAGCCACTGGATCTGTCCGATTCTACATTGTCTTACACTGAAA
 CCGAGGCCACCAACTCCCTCATCACTGCTCCGGGTGAATTCTCAGATGCCAGCATGTCTCCAGATGCCAC
 CAAGCCAAGCCACTGGTGCAGCGTGGCATACTGGGAGCACCGGACACGCGTGGGCCCGCTCTATGCGGTG
 TATGACCAGGCTGTGAGCATCTTCTACGACTACCTCAGGCGAGCGGCTTCTGCCTGGGCCAGCTCAACC
 TGGAGCAGCGCAGTGAGTCGGTGCGGCGCACACGGAGCAAGATCGTTTTGGCATCCTGCTCAGCAAGGA
 GCCCGATGGCGTGTGGGCTACAACCGGGCGAGCACCCCATCTTCGTCAACTCCCCGAGCTGGATGCG
 CCCGGAGGCCGCGCCCTGGTCTGCGCAAGGTGCCACCGGGCTACTCCATCAAGGTGTTGACTTTGAGC
 GCTCAGGGCTGCTGCAGCACGACGCGGCTCATGGGCCCTA

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

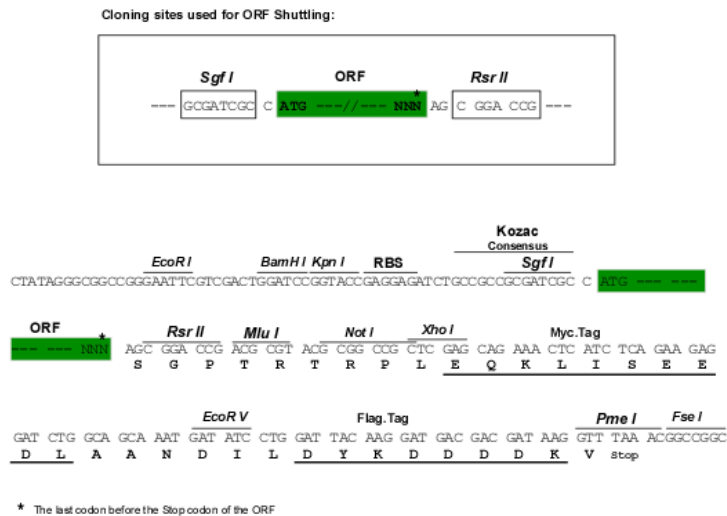
>RR211598 representing NM_001109002
 Red=Cloning site Green=Tags(s)

MFRSKRSLVRRLLWRSRVVPDREEGSGGGCGDEDGSLGSRAEPAPRAREGGGCRSEVRSVAPRRLRDA
 VGPRGAL IAGRRRTGGPPRPVSEPGAGGGSPLDVVEPGPGWLPESDCETVTCCLF SERDAAGAPRDS
 GDPQARQSPEPEEGGPRSREARSRLLELQELKTVTYSLKRLKERSLDTLLEAVESRGGVPGGCVLP
 RADLRLGGQPAPPQLLGRLEFRWPDLQHAVELKPLCGHSFAAADGPTVCCNPYHFSRLCGPESPPPPY
 SRLSPPDQHKPLDLSDSTLSYTETEATNSLITAPGEFSDASMSPDATKPSHWCSVAYWEHRTRVGRLYAV
 YDQAVSIFYDL PQSGFCLGQLNLEQRSESVRTRRSKIGFGILL SKEPDGVWAYNRGEHP IFVNSPTLDA
 PGGRALVVRKVPPGYSIKVDFDFERSGLLQHADA AHGPL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001109002

ORF Size: 1374 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_001109002.2](#), [NP_001102472.1](#)

RefSeq Size: 1377 bp

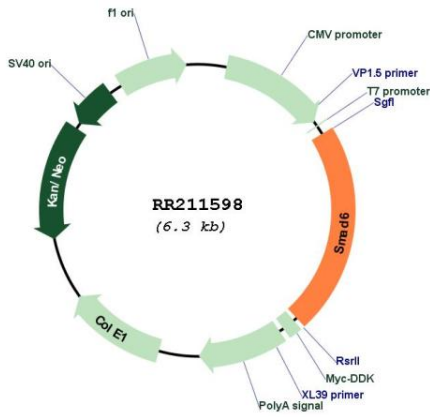
RefSeq ORF: 1377 bp

Locus ID: 367100

Cytogenetics: 8q24

MW: 49.3 kDa

Product images:



Circular map for RR211598