

## Product datasheet for **RR206804**

### Smad9 (NM\_138872) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smad9 (NM_138872) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad9
Synonyms:	Madh9; Smad8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206804 representing NM_138872 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCACCCAGCACCCCCATCAGCTCCCTTTCTCCTTACCAGCCCCGAGTGAAGAGGCTGCTGGGCT  
GGAAGCAGGGAGATGAAGAGGAGAAGTGGGCAGAGAAGGCAGTGGACTCTTTGGTGAAGAAGTTAAAGAA  
AAAGAAAGGCGCCATGGATGAACTGGAGAGGGCGCTGAGCTGCCCGGGCCAGCCTAGCAAGTGCCTTACC  
ATTCCACGCTCCCTGGATGGACGCTCCAGGTGTCCACCAGGAAGGGGCTGCCCATGTCATCTACTGCC  
GCGTGTGGCGCTGGCCAGATCTGCAATCCCATCATGAGCTGAAGCCCTTGAATGCTGCGAGTTCCTCGTT  
TGGCTCTAAGCAGAAGGAGGTCTGCATCAACCCATACCATTACCGCAGAGTGGAGACCCAGTTCCTGCCT  
CCAGTGTGTTACCAAGACACAGCGAGTACAACCTCAGCTCAGCTCCTGGCCAAGTTCGGAAGTGCCT  
CGCTGCACAGCGAACCGCTCATGCCGACAACGCCACCTACCCTGACTCTTCCAGCAGTCTCTCGGTCC  
CGCACCCGCTCCTCGCCAGGACAGTGTTCGCGAGTCTCATGCCACCAGCTACCCGAGTCCCC  
GGAAGTCTTCCGAGTCAGACAGTCTTATCAACACTCAGACTCCGGCCAGTTTGTACGAGGAGCCCC  
TGCACTGGTGTCTGTTGCCTACTACGAACTGAACAACCGGGTCGGAGAGACTTTCCAGGCATCTCCCG  
GAGTGTGCTCATAGATGGCTTACAGACCCTCCAATAACAGGAATAGTTCTGTCTTGGGCTTCTTCA  
AATGTAACAGAAATTCGACGATAGAAAACACCAGAAGGCACATTGAAAAGGGTGTGCAATTTGACTACG  
TTGGGGCGAGGTGTACGCGGAGTGCCTGAGCGACAGCAGCATCTTTGTCCAGAGCCGAACTGCAACTA  
CCAGCAGGCTTCCACCCGGCCACTGTCTGCAAGATCCCCAGTGGCTGCAGCCTCAAGGTCTTCAACAAC  
CAGCTCTCGCCAGCTGCTCGCCAGCTGCTCGCCAGTCACTGACCCAGGCTTTGAAGTTGTCTATG  
AACTGACGAAGATGTGCACGATTCGGATGAGCTTTGTGAAGGGCTGGGGAGCCGAGTATCATCGCCAGGA  
TGTCACAAGCACCCCTGCTGGATTGAGATTCATCTTCATGGACCACTGCAGTGGTTGGACAAGGTGCTA  
ACTCAGATGGGCTCCCCACACAACCTATTTCTCAGTGTCT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR206804 representing NM\_138872  
 Red=Cloning site Green=Tags(s)

MHPSTPISSLFSTSPAVKRLLGWKQGDEEEKWAEKAVDSL VKKLKKGAMDELERALSCPGQPSKCVT  
 IPRSLDGRQLQVSHRKGLPHVIYCRVWRWPD LQSHHELKPLECCEFPFGSKQKEVCINPYHYRRVETPVLP  
 PVLVPRHSEYNPQLSLLAKFRSASLHSEPLMPHNATYPDSFQQLSGPAPPSSPGHVFQSPCPTSYPQSP  
 GSPSESDSPYQHSDFRPVCYEEPLHWCSVAYYELNNRVGETFQASSRSLVLDGFTDPSNNRNFCLGLLS  
 NVNRNSTIENTRRHIGKGVHLYYVGVEVYAEVSDSSIFVQSRNCNYQHGFHPATVCKIPSGCSLKVFNN  
 QLFAQLLAQLLAQSVHHGFVYVELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVL  
 TQMGSPHNPISSVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

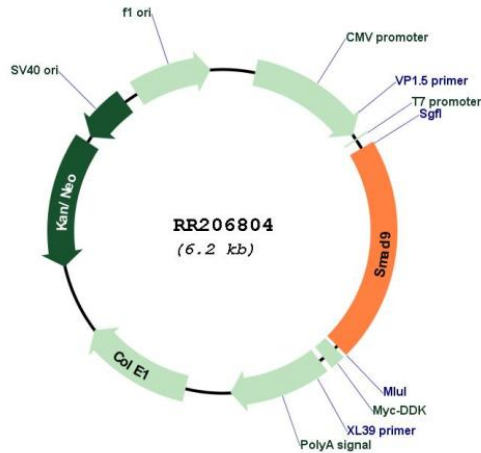
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_138872

<b>ORF Size:</b>	1302 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_138872.1</a> , <a href="#">NP_620227.1</a>
<b>RefSeq Size:</b>	1611 bp
<b>RefSeq ORF:</b>	1305 bp
<b>Locus ID:</b>	85435
<b>UniProt ID:</b>	<a href="#">O54835</a>
<b>Cytogenetics:</b>	2q26
<b>MW:</b>	49 kDa
<b>Gene Summary:</b>	transcriptional activator; acts as an intracellular mediator of transforming growth factor beta superfamily signalling [RGD, Feb 2006]