

Product datasheet for **MR227576**

Smad6 (NM_008542) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad6 (NM_008542) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smad6
Synonyms:	b2b390Clo; Madh6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227576 representing NM_008542
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
 GCCAGATCTC**AAGCTT**

AAGCTTATGTT**CAGTCTAAACGTT**CGGGGCTGGT**GCGGCGACTT**GGCGAAGTCGTGTGGTCCCTGATC
 GGGAGGAAGGCAGCGCGCGCGGGTGGTGT**CGACGAGGAT**GGGAGCCTGGGCAGCCGAGCTGAGCCTGC
 CCCGCGGGCAGGAGAGGGCGGAGGCTGCAGCGCTCCGAAGTCCGCTCGGTAGCCCCGCGCGGCCCGG
 GACGCGGTGGGACCGCGAGGCGCCGCGATCGCGGGCAGGCGCGGCGCACAGGGGGCTCCCGAGGCCCG
 TGT**CGGAGT**CGGGGGCGGGGCTGGGGCTCCCCGCTGGATGTGGCGGAGCCTGGAGGCCAGGCTGGCT
 GCCTGAGAGTGACTGCGAGACGGTGACCTGTCTCTTCTCCGAACGGGACGCAGCAGGCGCGCCCGG
 GACTCTGGCGATCCCAAGCCAGACAGTCCCCGGAGCCGAGGAGGGCGGGCCTCGGAGTCGCGAAG
 CCCGCTCGCGACTGCTGTTCTGGAGCAGGAGCTCAAGACGGTCACGTA**CTCGTCT**CAAGAGGCTCAA
 GGAGCGTTCGCTGGACACGCTGTTGGAGGCTGTGGAGTCCGAGGCGGCGTACCGGGCGGCTGCGTCTG
 TGCCCGCGCGCCGACCTCCGCTTGGGCGGCCAGCCCGCGCACCCGAGCTGCTGCTCGGCCGCTCTTCC
 GCTGGCCAGACCTGCAGCACGCAGTGGAGCTGAAACCCCTGTGCGGCTGCCACAGCTTACCGCCCGCC
 CGACGGGCCACGGTGTGTTGCAACCCCTACCACTTACGCGGCTCTGCGGGCCAGAATCACCGCCGCC
 CCCTATTCTCGGCTGTCTCTCTGACCACTGACCAAGCCACTGGATCTGTCCGATTCTACATTGTCTTACA
 CTGAAACCGAGGCCACCAACTCCCTCATCACTGCTCCGGTGAATTCTCAGATGCCAGCATGTCTCCGGA
 TGCCACCAAGCCGAGCCACTGGTGCAGCGTGGCGTACTGGGAGCACCGGACACCGTGGGCCGCTCTAT
 GCGGTGTACGACAGGCTGT**CAGCATTTT**CTACGACCTACCTCAGGCGAGCGGCTTCTGCCTAGGCGCAGC
 TCAACTGGAGCAGCGCAGT**GAGT**CGGTGCGGCGCAGCGCAGCAAGATCGGTTTTGGCATACTGCTCAG
 CAAGGAGCCAGACGGCGTGTGGGCTACAACCGGGCGAGCACCCCATCTTCGTCAACTCCCCGACGCTG
 GATGCGCCCGGAGGCCGCGCCCTGGTCTGCGCAAGGTGCCACCGGTTACTCCATCAAGGTGTTGACT
 TTGAGCGCTCAGGGCTGCTGAGCACGCAGACGCGCTCACGGCCCTACGACCCGCACAGTGTGCGCAT
 CAGCTTCGCCAAGGGCTGGGGACCTGCTACTCGGACAGTTCATCACCTCTGCCCTGTTGGCTGGAG
 ATCCTACTCAACAACCACAGAAGCGGACCG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227576 representing NM_008542
 Red=Cloning site Green=Tags(s)

KLMFRSKRSLVRRLLWRSRVVPDREEGSGGGGVDEEDGSLGSRAEPAPRAREGGGCSRSEVRSVAPRRPR
 DAVGPRGAAIAGRRRRRTGGLPRVSESGAGAGGSPLDVAEPGGPWLPESDCETVTCLFSERDAAGAPR
 DSGDPQARQSPEPEEGGPRSREARSRLLLLEQLKTVTYSLLKRLKERSLDTLLEAVESRGGVPGGCVL
 VPRADLRLGGQPAPPQLLLGRLFRWPDQLHAVELKPLCGHSFTAADGPTVCCNPYHFSRLCGPESPPP
 PYSRLSPDQYKPLDLSDSTLSYTETEATNSLITAPGEFSDASMSPDATKPSHWCSVAYWEHRTRVGRLY
 AVYDQAVSIFYDLPQGSFCLGQLNLEQRSESVRRTRSKIGFGILLKEPDGVWAYNRGEHPIFVNSPTL
 DAPGGRALVVRKVPPGYSIKVDFERSGLLQHADAAGPYDPHSVRI SF AKGWGPCYSRQFITSCPCWLE
 ILLNNHRSGP

Chromatograms:

https://cdn.origene.com/chromatograms/ja2297_f07.zip

Restriction Sites:

HindIII-RsrII

Cloning Scheme:

□

ACCN:

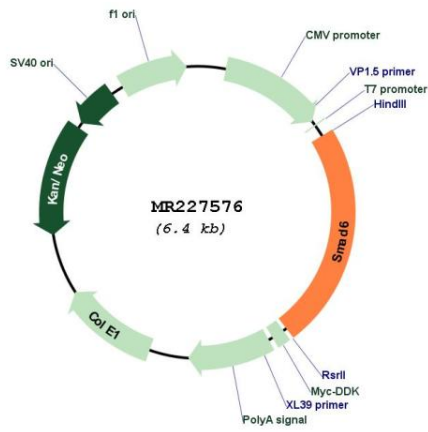
NM_008542

ORF Size:

1500 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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 Size:	2971 bp
RefSeq ORF:	1488 bp
Locus ID:	17130
UniProt ID:	O35182
Cytogenetics:	9 C
MW:	54.2 kDa
Gene Summary:	<p>Binds to regulatory elements in target promoter regions (By similarity). May block the BMP-SMAD1 signaling pathway by competing with SMAD4 for receptor-activated SMAD1-binding (By similarity). Acts as a mediator of TGF-beta and BMP antiinflammatory activity. Suppresses IL1R-TLR signaling through its direct interaction with PEL1, preventing NF-kappa-B activation, nuclear transport and NF-kappa-B-mediated expression of proinflammatory genes. [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR227576