

Product datasheet for **SC321624**

SMAD9 (NM_005905) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMAD9 (NM_005905) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMAD9
Synonyms:	MADH6; MADH9; PPH2; SMAD8; SMAD8/9; SMAD8A; SMAD8B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_005905.2
 GCAACTTGAATTGGTCCCAGCTGCTCCCAGAAGAACGGGCGGGTTGGTCCCTATGCCACC
 CCTGGAGAGCTACTCGCCGCCACTTTGCCGTGAAGGGCTGTGCGGTTCCCGTGCGCGCC
 GGAGCCTGCTGTGGCCTTTATGCACTCCACCACCCCATCAGCTCCCTTTCTCCTTCA
 CCAGCCCCGCAGTGAAGAGACTGCTAGGCTGGAAGCAAGGAGATGAAGAGGAAAAGTGGG
 CAGAGAAGGCAGTGGACTCTCTAGTGAAGAAGTTAAAGAAGAAGAAGGGAGCCATGGACG
 AGCTGGAGAGGGCTCTCAGCTGCCCGGGGCAGCCAGCAATGCGTCACGATTCGCCGT
 CCCTGGACGGGCGCTGCAGGTGTCCACCGCAAGGGCCTGCCCATGTGATTTACTGTC
 GCGTGTGGCGCTGGCCGATCTGCAGTCCCACCACGAGCTGAAGCCGCTGGAGTGTGTG
 AGTTCCCATTTGGCTCCAAGCAGAAAGAAGTGTGCATTAACCCTTACCACTACCGCCGGG
 TGGAGACTCCAGTACTGCCTCCTGTGCTCGTGCCAAGACACAGTGAATATAACCCCCAGC
 TCAGCCTCCTGGCAAGTCCGCAGCGCCTCCCTGCACAGTGAAGCCACTCATGCCACACA
 ACGCCACATCCTGACTCTTCCAGCAGCCTCCGTGCTCTGCACTCCCTCCCTCACCCA
 GCCACGCTTCTCCAGTCCCGTGCACGGCCAGCTACCCTCACTCCCCAGGAAGTCTT
 CTGAGCCAGAGAGTCCCTATCAACTCAGACTTTCGACCAGTTTGTACGAGGAGCCCC
 AGCACTGGTGTGCTCGGTCGCTACTATGAACTGAACAACCGAGTTGGGGAGACATTCCAGG
 CTTCTCCCGAAGTGTGCTCATAGATGGGTTACCGACCCCTTCAAATAACAGGAACAGAT
 TCTGTCTTGGACTTCTTTCTAATGTAAACAGAACTCAACGATAGAAAATACCAGGAGAC
 ATATAGGAAAGGGTGTGCACTTGTACTACGTCCGGGGAGAGGTGTATGCCGAGTGCCTGA
 GTGACAGCAGCATCTTTGTGCAGAGCCGGAAGTCAACTATCAACACGGCTTCCACCCAG
 CTACCGTCTGCAAGATCCCCAGCGGCTGCAGCCTCAAGGTCTTCAACAACCAGCTCTTCG
 CTCAGTCTCCTGGCCAGTCAGTTCACCACGGCTTTGAAGTCGTGTATGAAGTACCAAGA
 TGTGTACTATCCGGATGAGTTTTGTTAAGGGTTGGGGTGTGAGTATCATCGCCAGGAT
 TCACCAGCACCCCTGCTGGATTGAGATTCATCTTCATGGCCACTGCAGTGGCTGGACA
 AAGTTCTGACTCAGATGGCTCTCCACATAACCCATTTCTTCAGTGTCTTAACAGTCAT
 GTCTTAAGCTGCATTTCCATAGGATAGAGGCTATTGCAGGGAGTGGCTTGTATCATTTC
 GATTTGCAACTGAAGTTTCTAAAAACATGTGTAATACATAGAATGTATACTGTTCTTAT
 TTTTTTAAATCACCGTTTGTGCTTTCTAGTTAACCTGATGCCAGTACAGTGCAT
 TGGAAAAGCAGGACTTTGGTGCCTGTGCTATAAGCAGCAGATTTGTGGGAGGAAACACT
 TGAGAGGGCAGATTTGCAACAGTATTTGAAGGGTGTAGCAGAATAAAAGACAGCTTTAG
 TCAGCCGTGTCATTATAAAGCATGTTGTGTGGCCTCACAGAAACATTGAAACTGTTTATA
 CAGCAAAAGTCAGGTATTAGCAGCACTAAAGCAAATATCACTCAGATGAAACAAAGCAGT
 GAAACCCTACAGTTTAAATGATGTCACCTTTAGTGTGTTGGCAAGAAAAAAAAAAAAAA
 AAACAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005905

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_005905.2](#), [NP_005896.1](#)

RefSeq Size: 1943 bp

RefSeq ORF: 1293 bp

Locus ID: 4093

UniProt ID: [O15198](#)

Cytogenetics: 13q13.3

Domains: DWB, DWA, MH1

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways: TGF-beta signaling pathway

Gene Summary: The protein encoded by this gene is a member of the SMAD family, which transduces signals from TGF-beta family members. The encoded protein is activated by bone morphogenetic proteins and interacts with SMAD4. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]
Transcript Variant: This variant (b) lacks an alternate in-frame exon, compared to variant a, resulting in a shorter protein (isoform b), compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.