

## Product datasheet for **SC320357**

### SMAD6 (NM\_005585) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMAD6 (NM_005585) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMAD6
Synonyms:	AOVD2; HsT17432; MADH6; MADH7
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\_005585 edited  
 CCCCAGTAAACCGGAGACCGCCTCCCCCACCCTGGCGCCAAAGGATATCGTATGTTCA  
 GGTCCAAACGCTCGGGGCTGGTGCGGGACTTTGGCGAAGTCGTGTGGTCCCCGACCGGG  
 AGGAAGGCGGCAGCGGGCGGGTGGCGGCGACGAGGATGGGAGCTTGGGAGCCGAG  
 CTGAGCCGGCCCCCGGGCAAGAGAGGGCGGAGGCTGCGGCCGCTCCGAAGTCCGCCGG  
 TAGCCCCGCGGGCCCCGGGACGAGTGGACAGCGAGGCGCCAGGGCGGGGAGGC  
 GCCGGCGCGCAGGGGGCCCCCGAGGCCATGTCGGAGCCAGGGCGGGCGCTGGGAGCT  
 CCCTGCTGGACGTGGCGGAGCCGGGAGGCCGGGCTGGCTGCCGAGAGTACTGCGAGA  
 CGGTGACCTGCTGTCTTTTTCGGAGCGGGACGCCCGCGCGCCCCGGGACGCCAGCG  
 ACCCCCTGGCGGGGCGGCCCTGGAGCCGGCGGGCGGGCGGAGTCGCGAAGCGCGCT  
 CGCGGCTGCTGCTGGAGCAGGAACAAAACCGTCACGTAAGTACTGCTGCTGAAAGCGG  
 TCAAGGAGCGCTCGTGGACACGCTGCTGGAGGCGGTGGAGTCCCGCGGGCGGTGCCGG  
 GCGGCTGCTGCTGGTCCCGCGCCGACCTCCGCTGGCGGCCAGCCCGCGCCCGC  
 AGCTGCTGCTCGCCGCCTTTTCGCTGGCCCGACCTGCAGCACCGCTGGAGCTGAAGC  
 CCCTGTGGGCTGCCACAGCTTCGCCCGCGCCGCGACGCCCTACCGTGTGCTGCAACC  
 CCTACCATTACGCGGCTCTGCGGGCCGAATCTCCGCCACCTCCCTACTCTCGGCTGT  
 CTCTCGCGACGAGTACAAGCCACTGGATCTGTCCGATCCACATTGTCTTACACTGAAA  
 CGGAGGCTACCAACTCCCTCATCACTGCTCCGGTGAATTCTCAGACGCCAGCATGTCTC  
 CGGACGCCACCAAGCCGAGCCACTGGTGCAGCGTGGCGTACTGGGAGCACCGGACGCGG  
 TGGGCCGCTCTATGCGGTGTACGACCAGGCCGTGAGCATCTTCTACGACCTACCTCAGG  
 GCAGCGGCTTCTGCTGGCCAGCTCAACTGGAGCAGCGCAGCGAGTGGTGGCGCGAA  
 CGCGCAGCAAGATCGGCTTCGGCATCTGCTCAGCAAGGAGCCCGACGGCGTGTGGGCT  
 ACAACCGCGGCGAGCACCCATCTTCGTAACCTCCCGACGCTGGACGCGCCCGGGCC  
 GCGCCCTGGTCTGCGCAAGGTGCCCGGCTACTCCATCAAGGTGTTGACTTCGAGC  
 GCTCGGGCTGCAGCACGCGCCGAGCCGACGCCGCGGCGCCCTACGACCCCAACA  
 GCGTCCGCATCAGCTTCGCCAAGGGTGGGGCCCTGCTACTCCCGCAGTTCATCACT  
 CCTGCCCTGCTGGTGGAGATCTCTCAACAACCCAGATAGTGGCGGCCCGGGCGG  
 AGGGGCGGGTGGGAGGCCGCGGCCACCGCACCTGCCGCTCGAGAGGGGCCGATGCC  
 AGAGACACAGCCCCACGGACAAAACCCCGAGATATCATCTACCTAGATTTAATATAAA  
 GTTTTATATATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_005585

**Insert Size:** 2400 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone may be unstable or toxic at high copy number in common E. coli strain. We recommend using a lower copy number E. coli strain, such as CopyCutter strain ( <a href="http://www.epibio.com/item.asp?ID=435">http://www.epibio.com/item.asp?ID=435</a> ) for transformation and plasmid preparation. Please be aware that the DNA yield could be low. Additional aliquots of this clone can be ordered from OriGene.
<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>	<u><a href="#">NM_005585.3</a></u> , <u><a href="#">NP_005576.3</a></u>
<b>RefSeq Size:</b>	2912 bp
<b>RefSeq ORF:</b>	2886 bp
<b>Locus ID:</b>	4091
<b>UniProt ID:</b>	<u><a href="#">O43541</a></u>
<b>Cytogenetics:</b>	15q22.31
<b>Domains:</b>	DWB, DWA, MH1
<b>Protein Families:</b>	Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Protein Pathways:</b>	TGF-beta signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene belongs to the SMAD family of proteins, which are related to Drosophila 'mothers against decapentaplegic' (Mad) and C. elegans Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein functions in the negative regulation of BMP and TGF-beta/activin-signalling. Multiple transcript variants have been found for this gene.[provided by RefSeq, Sep 2014]</p> <p>Transcript Variant: This variant (1) encodes the supported protein.</p>