

## Product datasheet for **SC127117**

### 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  
 CCCCAGTAACCGGAGACCGCCTCCCCCACCCTGGCGCCAAAGGATATCGTATGTTCA  
 GGTCCAAACGCTCGGGGCTGGTGCGGGACTTTGGCGAAGTCGTGTGGTCCCCGACCGGG  
 AGGAAGGCGGCAGCGGGCGGGTGGCGGCGACGAGGATGGGAGCTTGGGCAGCCGAG  
 CTGAGCCGGCCCCCGGGCAAGAGAGGGCGGAGGCTGCGGCCGCTCCGAAGTCCGCCGG  
 TAGCCCCGCGGGCCCCGGGACGACGTGGGACAGCGAGGCGCCAGGGCGGGGAGGC  
 GCCGGCGCGCAGGGGGCCCCCGAGGCCATGTCGGAGCCAGGGGCCGGCGCTGGGAGCT  
 CCCTGCTGGACGTGGCGGAGCCGGGAGGCCCGGGCTGGCTGCCGAGAGTGACTGCGAGA  
 CGGTGACCTGCTGTCTTTTTCGGAGCGGGACGCCCGCGCGCCCCGGGACGCCAGCG  
 ACCCCCTGGCGGGGCGGCCCTGGAGCCGGCGGGCGGGCGGAGTCGCGAAGCGCGCT  
 CGCGGCTGCTGCTGGAGCAGGAACAAAACCGTCACGTAAGTCTGCTGTAAGCGGC  
 TCAAGGAGCGCTCGTGGACACGCTGCTGGAGGCGGTGGAGTCCCGCGGGCGGTGCCGG  
 GCGGCTGCTGCTGGTCCCGCGCCGACCTCCGCTGGCGGCCAGCCCGCCCGCCG  
 AGCTGCTGCTCGCCGCCTTTTCGCTGGCCCGACCTGCAGCACCCGTGGAGCTGAAGC  
 CCCTGTGGGCTGCCACAGCTTCGCCGCCCGCCGACGCGCCCTACCGTGTGCTGCAACC  
 CCTACCATTACGCCGCTCTGCGGGCCGAATCTCCGCCACCTCCCTACTCTCGGCTGT  
 CTCTCGCGACGAGTACAAGCCACTGGATCTGTCCGATCCACATTGTCTTACACTGAAA  
 CGGAGGCTACCAACTCCCTCATCACTGCTCCGGTGAATTCTCAGACGCCAGCATGTCTC  
 CGGACGCCACCAAGCCGAGCCACTGGTGCAGCGTGGCGTACTGGGAGCACCGGACGCGCG  
 TGGGCCGCTCTATGCGGTGTACGACCAGGCCGTGAGCATCTTCTACGACCTACCTCAGG  
 GCAGCGGCTTCTGCTGGCCAGCTCAACTGGAGCAGCGCAGCGAGTGGTGGCGCGAA  
 CGCGCAGCAAGATCGGCTTCGGCATCTGCTCAGCAAGGAGCCCGACGGCGTGGGGCT  
 ACAACCGCGGCGAGCACCCATCTTCGTAACCTCCCGACGCTGGAGCGGCCCGCGGCC  
 GCGCCCTGGTCTGCGCAAGGTGCCCCCGGCTACTCCATCAAGGTGTTGACTTCGAGC  
 GCTCGGGCTGCAGCACGCGCCGAGCCGACGCCCGCGCCGACGCCCTACGACCCCAACA  
 GCGTCCGCATCAGCTTCGCCAAGGGTGGGGGCCCTGCTACTCCCGCAGTTCATCACT  
 CCTGCCCTGCTGGTGGAGATCTCTCAACAACCCAGATAGTGGCGGCCCGCGGG  
 AGGGGCGGGTGGGAGGCCCGGCCACCGCCACTGCCGCTCGAGAGGGGCCGATGCC  
 AGAGACACAGCCCCACGGACAAAACCCCGAGATATCATCTACCTAGATTTAATATAAA  
 GTTTTATATATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_005585

**Insert Size:** 2886 bp

**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 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 (<http://www.epibio.com/item.asp?ID=435>) 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.

**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).

<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_005585.2</a> , <a href="#">NP_005576.2</a>
<b>RefSeq Size:</b>	2886 bp
<b>RefSeq ORF:</b>	2886 bp
<b>Locus ID:</b>	4091
<b>UniProt ID:</b>	<a href="#">O43541</a>
<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>