

## Product datasheet for **SC116436**

### SMAD5 (NM\_005903) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMAD5 (NM_005903) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMAD5
Synonyms:	DWFC; JV5-1; MADH5
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005903, the custom clone sequence may differ by one or more nucleotides

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ATGACGTCAATGGCCAGCTTGTCTTTCTTTACTAGTCCAGCAGTAAAGCGATTGTTGGGCTGAAACAAG
GTGATGAGGAGGAGAAATGGGCAGAAAAGGCAGTTGATGCTTTGGTGAAGAACTAAAAAGAAAAGGG
TGCCATGGAGGAACTGGAGAAAGCCTTGAGCAGTCCAGGACAGCCGAGTAAATGTGCTACTATCCCAGA
TCTTTAGATGGACGCTGCAGGTTTCTCACAGAAAAGGCTTACCCCATGTTATATATTGTCGTGTTTGGC
GCTGGCCGGATTGCAGAGTCATCATGAGCTAAAGCCGTTGGATATTTGTGAATTCCTTTTGGATCTAA
GCAAAAAGAAGTTTGTATCAACCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTATTA
GTGCCTCGTCATAATGAATCAATCCACAACACAGCCTTCTGGTTCAGTTTAGGAACCTGAGCCACAATG
AACCACACATGCCACAAAATGCCACGTTTCCAGATTCTTCCACCAGCCCAACAACACTCCTTTTCCCTT
ATCTCCAAACAGCCCTTATCCCCCTTCTCCTGCTAGCAGCACATATCCCAACTCCCAGCAAGTTCTGGA
CCAGGAAGTCCATTTCCAGCTCCCAGCTGATACGCCTCCTCCTGCCTATATGCCACCTGATGATCAGATGG
GTCAAGATAATCCCAGCCTATGGATAACAAGCAATAATATGATTCCTCAGATTATGCCCAGTATATCCAG
CAGGGATGTTCCAGCCTGTTGCCATGAAGAGCCTAAACATTGGTGTCAATAGTCTACTATGAATTAAC
AATCGTGTGGAGAAGCTTTTTCATGCATCTTCTACTAGTGTGTTAGTAGATGGATTACAGATCCTTCAA
ATAACAAAAGTAGATTCTGCTTGGGTTTGTGTCAAATGTTAATCGTAATTCGACAATTGAAAACACTAG
GCGACATATTGAAAAGGTGTTTCATCTGTACTATGTTGGTGGAGAGGTGTATGCCGAATGCCTCAGTGAC
AGCAGCATATTTGTACAGAGTAGGAACTGCAACTTTCATCATGGCTTTCATCCCACCAGTCTGTGAAGA
TTCCCAGCAGCTGCAGCCTCAAATTTTTAACAAATCAGGAGTTTGCTCAGCTTCTGGCTCAATCTGTCAA
CCATGGGTTTGGAGCAGTATATGAGCTACCAAATGTGTACCATTCCGGATGAGTTTTGTCAAGGGTTGG
GGAGCAGAATATCACCGGCAGGATGTAACCAGCACCCCATGTTGGATTGAGATTCATCTTCATGGCCCTC
TTCAGTGGCTGGATAAAGTCCTTACTCAGATGGGCTCCCTCTGAACCCCATATCTTCTGTTTCATAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005903 unedited GGTCAAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGNANAAGCG CAGCGACGGCGTGGGAGAGCGCGCCTAGCCGGCTCGCGAGACTTGACCCAATGAAAGAA GCATATGGCACTTGTGAAGATAAATGTTACTCTCCCTTTTAAATTGGAACCTTCTGCTTA GGACCTGTGTATGACGTTTACCTGTGATCTGTTCTTTCGGTAGCCACTGACTTTGAGTT ACAGGAAGGTCTCCGAAGATTTGTGCAAAATGACGTCAATGGCCAGCTTGTTTTCTTTTA CTAGTCCAGCAGTAAAGCGATTGTTGGGCTGGAACAAGGTGATGAGGAGGAGAAATGGG CAGAAAAGGCAGTTGATGCTTTGGTGAAGAACTAAAAAGAAAAGGGTGCCATGGAGG AACTGGAGAAAGCCTTGAGCAGTCCAGGACAGCCGAGTAAATGTGCACTATTCCAGAT CTTTAGATGGACGCTGCAGGTTTCTCACAGAAAAGGCTTACCCCATGTTATATATTGTC GTGTTTGGCGCTGGCCGATTGTCAGAGTCATCATGAGCTAAAGCCGTTGGATATTTGTG AATTTCTTTTGGATCTAAGCAAAAAGAAGTTGTATCAACCCATACCACTATAAGAGAG TGGAGAGTCCAGATGTTACGCTGTTGCCTATGAAGAGCCTAACATTGGTGTCAATAG TCTACTATGAATTAACAATCGTGTGGAGAAAGCTTTCATGCATCTTCTACTAGTGTGT TAGTAGATGGATTACAGATCCTCAAATAACANAGTAGATTCTGCTTGGGTTTTGTGT CAAATGTTAATCGTAATTCGACAATTGAAAACACTANGCGACATATTGGNAAAAGTGTC ATCTGACTATGNT
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005903 unedited GCGGCCCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTCCAAAATAATTTCTTCATTC TCATGTCATAATTAAGTGTCCATTTGACAGCTCCTGAGAAAAAACTGGTTCAAAGTTCT TTATCCAAAGCCAAAAACATGATTGATTAATGGATATTTTGGAGTTCGTTTCATGTCTTT TCTCTCTAAAGATTGTGTTTTGGGAGACTAGCTTCCACATAAGTACTTAAAAATGGA AAGAGGATCATCGATAAATGAGAGAAGAGTCTATATTCGTTGATGGGTGAGTGTGTTGTT TTGTTTTGTTTTGAGGCAGAGTCTCGCTCTGTGCCCAGGCTGGAGTGCAGTGGTGCG ATCTCGGCTCACCACAACCTCCGCTCCAGGTTCAAGTGATTCTTCTGCCTCAGCTTCC CGAGTAGCTGGGACTTACGGCACGCACCACCATGCCAGCTAATTTTTGTATTTTTGTG GAGACAGGTTTTACCATATTGGCCAGGCTGGTCTCAAACCTCCTGACATCATGATCTGCC TGCCCTCAGCCTCCCAAAGTGTGGGATTACAGGTGTGAGCCACTGTGCCAGCCGAGTGT TTTAAATCAGCTATCCCTACATCCACTGCTGATTCATTTAGTATCAAATCAGTACCCTT ATCCTTGGGGCCCAACTGAAGACCCTCTACGGCTCCAGTGCATAGGTCTTGGCTAGGG AAGCTGATACAAGTAAGCTGCCACCTGTACACACCATGGAATTACCACTTGATCCTCCAC CCTGAAAACCCCTAAAACGTAGGGATTA AAAAGCCCTAAGTTGGACCTTGAATACAGT CTTTTACCCAGGTGAAAGGAACCAACCCAAAAAGCCTACTTCTCCAAGTGACCTTTAAT GCAGGTTGGTATCCAAAAGGGCCCGCCTAAGTTAACCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005903
<b>Insert Size:</b>	3110 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_005903.5</a> , <a href="#">NP_005894.3</a>
<b>RefSeq Size:</b>	7012 bp
<b>RefSeq ORF:</b>	1398 bp
<b>Locus ID:</b>	4090

<b>UniProt ID:</b>	<u>Q99717, Q68DB7</u>
<b>Domains:</b>	DWB, DWA, MH1
<b>Protein Families:</b>	Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	TGF-beta signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is involved in the transforming growth factor beta signaling pathway that results in an inhibition of the proliferation of hematopoietic progenitor cells. The encoded protein is activated by bone morphogenetic proteins type 1 receptor kinase, and may be involved in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]</p> <p>Transcript Variant: This variant (1) differs in the 5' UTR, compared to variant 2. Variants 1-3 encode the same protein.</p>