

Product datasheet for **SC300184**

SMAD5 (NM_001001420) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMAD5 (NM_001001420) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMAD5
Synonyms:	DWFC; JV5-1; MADH5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC300184 representing NM_001001420.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACGTCAATGGCCAGCTTGTCTTTTACTAGTCCAGCAGTAAAGCGATTGTTGGGCTGGAACAA
GGTGATGAGGAGGAGAAATGGGCAGAAAAGGCAGTTGATGCTTTGGTGAAGAACTAAAAAGAAAAAG
GGTGCCATGGAGGAAGCTGGAGAAAGCCTTGAGCAGTCCAGGACAGCCAGTAAATGTGCTACTATCC
AGATCTTTAGATGGACGCTGCAGGTTTCTCACAGAAAAGGCTTACCCCATGTTATATATTGTCGTGTT
TGGCGCTGGCCGGATTTGCAGAGTCATCATGAGCTAAAGCCGTTGGATATTTGTGAATTCCTTTTGG
TCTAAGCAAAAAGAAGTTTGTATCAACCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCA
GTATTAGTGCCTCGTCATAATGAATTCATCCACAACACAGCCTTCTGGTTCAGTTTAGGAACCTGAGC
CACAATGAACCACACATGCCACAAAATGCCACGTTTCCAGATTCTTCCACCAGCCCAACAACACTCT
TTTCCCTTATCTCAAACAGCCCTTATCCCCCTTCTCCTGCTAGCAGCACATATCCCAACTCCCCAGCA
AGTTCTGGACCAGGAAGTCCATTTCCAGCTCCAGCTGATACGCCCTCCTCCTGCTATATGCCACCTGAT
GATCAGATGGGTCAAGATAATCCAGCCTATGGATACAAGCAATAATATGATTCCTCAGATTATGCC
AGTATATCCAGCAGGGATGTTCCAGCCTGTTGCCTATGAAGAGCCTAAACATTGGTGTCAATAGTCTAC
TATGAATTAACAATCGTGTGGAGAAGCTTTTCATGCATCTTCTACTAGTGTGTAGTAGATGGATTC
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ATTGAAAACACTAGGCGACATATTGAAAAGGTGTTTCTGTACTATGTTGGTGGAGAGGTGTATGCG
GAATGCCTCAGTGACAGCAGCATATTTGTACAGAGTAGGAAGTCAACTTTCATCATGGCTTTTATCCC
ACCAGTCTGTAAAGATCCCAGCAGCTGCAGCCTCAAATTTTAACAATCAGGAGTTTGTCTCAGCTT
CTGGCTCAATCTGTCAACCATGGGTTTGGAGCAGTATATGAGCTACCAAAAATGTGTACCATCGGATG
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ATTCATCTTCATGGCCTCTTCAGTGGCTGGATAAAGTCCTTACTCAGATGGGCTCCCCTCTGAACCCC
ATATCTTCTGTTTCATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001001420

Insert Size: 1398 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 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:	<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:	NM_001001420.2
RefSeq Size:	6939 bp
RefSeq ORF:	1398 bp
Locus ID:	4090
UniProt ID:	Q99717
Cytogenetics:	5q31.1
Protein Families:	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
Protein Pathways:	TGF-beta signaling pathway
MW:	52.3 kDa
Gene Summary:	<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 (3) differs in the 5' UTR, compared to variant 2. Variants 1-3 encode the same protein.</p>