

## Product datasheet for **MC218198**

### Smad5 (NM\_001164042) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smad5 (NM_001164042) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smad5
Synonyms:	1110051M15Rik; AI451355; Dwf-C; Madh5; MusMLP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218198 representing NM\_001164042  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACGTCAATGGCCAGCTTGTCTTCTCACTAGTCCAGCCGTGAAGCGATTGTTGGGCTGGAACAAG  
GTGACGAGGAAGAGAAATGGGCAGAAAAGCAGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG  
TGCTATGGAGGAGCTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTACGATCCCCAGG  
TCCTTGGATGGACGTCTGCAAGTTTCTCACAGGAAAGGCTTGCCCATGTTATATATTGCCGTGTTTGGC  
GCTGGCCAGATTTGCAGAGCCATCACGAGCTAAAACCATGGATATTTGTGAATTTCTTTTGGATCTAA  
GCAAAAAGGAAGTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTATTA  
GTGCCCTCGTCACAATGAATTCATCCACAACACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG  
AACCGCACATGCCACAAAACGCCAGTTTCCCCTGTTTCCACCAACCCAACAACGCTCCTTTCCCCTT  
ATCTCCTAACAGCCCCTATCCTCCTTCCCCTGCTAGCAGCACATATCCCAACTCCCAGCAAGCTCTGGA  
CCTGGAAGTCCATTTCAACTCCCAGCTGACACCCCTCCCCTGCCTATATGCCACCTGATGATCAGATGG  
CCCCAGATAAATCCCAGCCTATGGATACAAGCAGTAACATGATTCCCTCAGACCATGCCCAGCATATCCAG  
CAGAGATGTTTCAGCCTGTCGCCTATGAGGAGCCCAAACTGGTGTTCGATTGTCTACTATGAATTAAC  
AATCGTGTGGGGAAGCTTTTTCATGCATCTTCTACTAGTGTGTTAGTAGATGGATTTACAGATCCTTCAA  
ATAACAAAAGTAGATTCTGCCTGGGATTGTTGTCAAATGTTAATCGTAATTCAACTATTGAAAACACTAG  
GCGGCATATTGAAAAGGTGTTTCATCTATACTACGTTGGTGGGGAGGTGTACGCTGAGTGTCTTAGTGAC  
AGCAGCATCTTTGTTTCAGAGTAGGAAGTCAACTTTCCACATGGCTTCCATCCCACCACCGTCTGTAAAG  
TCCCCAGCAGCTGCAGCCTCAAGATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAAGTCAA  
CCATGGATTTCGAGGCTGTGTATGAGCTACCAAGATGTGTACCATTGGAATGAGCTTTGTCAAGGGCTGG  
GGAGCAGAGTACCACCGACAGGACGTCACCAAGTACTCCCTGCTGGATTGAGATTCACCTCCACGGGCCTC  
TGCAAGTGGCTGGATAAAGTCTTACTCAGATGGCTCTCCGCTGAACCCATTCTTCTGTTTCA TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001164042

**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).

**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:	<u>NM_001164042.1, NP_001157514.1</u>
RefSeq Size:	6608 bp
RefSeq ORF:	1398 bp
Locus ID:	17129
UniProt ID:	<u>P97454</u>
Cytogenetics:	13 30.12 cM
Gene Summary:	<p>Transcriptional modulator activated by BMP (bone morphogenetic proteins) type 1 receptor kinase. SMAD5 is a receptor-regulated SMAD (R-SMAD) (By similarity). Required for angiogenesis.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR, compared to variant 2. Variants 1, 2, and 3 all encode the same protein.</p>