

Product datasheet for **MC216267**

Smad5 (NM_001164041) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smad5 (NM_001164041) 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: >MC216267 representing NM_001164041
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGTC AATGGCCAGCTTGT TTTCTTTCACTAGTCCAGCCGTAAGCGATTGTTGGGCTGGAACAAG
 GTGACGAGGAAGAGAAATGGGCAGAAAAGCAGTGGATGCTTTAGTGAAAAGCTGAAGAAGAAGAGGG
 TGCTATGGAGGAGCTGGAGAAAGCCTTGAGCAGCCAGGACAGCCAAGCAAGTGTGTACAGATCCCCAGG
 TCCTTGGATGGACGTCTGCAAGTTTCTCACAGGAAAGGCTTGCCCATGTTATATATTGCCGTGTTGGC
 GCTGGCCAGATTTGCAGAGCCATCACGAGCTAAAACCATGGATATTTGTGAATTTCTTTTGGATCTAA
 GCAAAAGGAAGTTTGTATCAATCCATACCACTATAAGAGAGTGGAGAGTCCAGTCTTACCTCCAGTATTA
 GTGCCCTCGTCACAATGAATTCATCCACAACACAGCCTTCTGGTTCAGTTCAGGAACCTGAGCCACAATG
 AACCGCACATGCCACAAAACGCCAGTTTCCCCTGTTTCCACCAACCCAACAACGCTCCTTTCCCCTT
 ATCTCCTAACAGCCCCTATCCTCCTTCCCCTGCTAGCAGCACATATCCCACTCCCAGCAAGCTCTGGA
 CCTGGAAGTCCATTTCAACTCCCAGCTGACACCCCTCCCCTGCCTATATGCCACCTGATGATCAGATGG
 CCCAGATAAATCCCAGCCTATGGATACAAGCAGTAACATGATTCCTCAGACCATGCCCAGCATATCCAG
 CAGAGATGTTCAGCCTGTCGCCTATGAGGAGCCAAAACACTGGTGTTCGATTGTCTACTATGAATTAAC
 AATCGTGTGGGGAAGCTTTTTCATGCATCTTCTACTAGTGTGTTAGTAGATGGATTTACAGATCCTTCAA
 ATAACAAAAGTAGATTCTGCCTGGGATTGTTGTCAAATGTTAATCGTAATTCAACTATTGAAAACACTAG
 GCGGCATATTGAAAAGGTGTTTCATCTATACTACGTTGGTGGGGAGGTGTACGCTGAGTGTCTTAGTGAC
 AGCAGCATCTTTGTTTTCAGAGTAGGAAGTCAACTTTCCACATGGCTTCCATCCCACCACCGTCTGTAA
 TCCCCAGCAGCTGCAGCCTCAAGATTTTAAACAATCAGGAGTTTGCTCAGCTTCTGGCTCAGTCAAGTCAA
 CCATGGATTTCGAGGCTGTGTATGAGCTCACCAAGATGTGTACCATTGGAATGAGCTTTGTCAAGGCTGG
 GGAGCAGAGTACCACCGACAGGACGTCACCAAGTACTCCCTGCTGGATTGAGATTCACCTCCACGGGCCTC
 TGCAAGTGGCTGGATAAAGTCTTACTCAGATGGCTCTCCGCTGAACCCATTCTTCTGTTTCA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001164041

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: [NM_001164041.1](#), [NP_001157513.1](#)

RefSeq Size: 6988 bp

RefSeq ORF: 1398 bp

Locus ID: 17129

UniProt ID: [P97454](#)

Cytogenetics: 13 30.12 cM

Gene Summary: 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]
Transcript Variant: This variant (2) represents the longest transcript. Variants 1, 2, and 3 all encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.