

## Product datasheet for **MC217133**

### **Bmp6 (NM\_007556) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bmp6 (NM_007556) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bmp6
Synonyms:	D13Wsu115; D13Wsu115e; Vg; Vgr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217133 representing NM\_007556  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCGGCTGGGGCGGAGGGCGCAGTGGCTGTGCTGGTGGTGGGGTTGCTGTGCAGCTCGGCCCCC  
 CGCCACTGCGGCCCTCTGCCGTTAGCCGCGGCCGCGCCGGGGGCGAGCTGCTGGGAGCCGGCGGGAG  
 CCCGGTGCAGCTGAGCAGCCACCGCCACAGTCTCTTCTTCGGGCTTCCTCTATCGCGGCTCAAGACC  
 CACGAGAAGCGGGAGATGCAAAAGGAGATCCTGTCCGTTGCTGGGGCTCCCGCACAGGCCGCGGCCCTGC  
 ACGGTCTCCAGCAGCCTCAGCCCCGGTCTCCCGCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC  
 GGCCCGCAGGAGCCCCCTCAGGGCGGCTGAAGTCCGCTCCACTCTTCATGCTGGATCTCTACAACGCC  
 CTGTCCAATGACGACGAAGAGGATGGGGCATCGGAGGGTGTGGGGCAAGAGCCTGGTCCACGGAGGGG  
 CCAGCTCGTCCCAGCTCAGGCAGCCGTCTCCCGCGCTGCACACTCCTTGAACCGCAAGAGTCTCCTGGC  
 CCCGGGACCCGGTGGCGGTGCGTCCCCTGACTAGCGCGCAGGACAGCGCTTTCCTCAACGACCGGGAC  
 ATGGTCATGAGCTTTGTGAACCTGGTGGAGTACGACAAGGAGTTCTCCCCACATCAACGACACCACAAAG  
 AGTTCAAGTTCAACCTATCCCAGATTCTGAGGGTGAGGCGGTGACGGTCTGATTTCCGCTCTACAA  
 GGACTGTGTGGTGGGGAGTTTTAAAAACAAACCTTTCTTATCAGCATTTACCAAGTCTTGCAGGAGCAT  
 CAGCACAGAGACTCTGACCTATTTTTGTTGGACACCCGGGTGGTGTGGGCCTCAGAAGAAGTTGGCTGG  
 AATTTGACATCACAGCAACTAGCAATCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 TGTGGT  
 GACAAGCAGCCCTTCATGGTGGCCTTCTTCAAGGTGAGCGAGGTTCCACGTGCGCACACCACCGTCCAGCT  
 CCAGTCGGCGGGCGCAGCAGAGTCGCAACCGGTCACCCAGTCGACAGGAGTGTCCCGGGGCTCCGGTTC  
 TTCAGACTACAACGGCAGTGAAGTAAAAACAGCTTGAAGAAGCATGAGCTCTATGTGAGCTTCCAGGAC  
 CTGGGATGGCAGGACTGGATCATTGCACCCAAAGGCTACGCTGCCAACTACTGTGATGGAGAGTGTCTCT  
 TCCCACTCAACGCACACATGAATGCCACCAACCACGCCATTGTACAGACCTTGGTCCACCTTATGAATCC  
 CGAGTACGTCCCCAAACCATGCTGCGCACCAACCAAACTGAATGCCATCTCGTTCTTTACTTCGATGAT  
 AACTCCAATGTCATCTTGAAAAAGTACAGGAATATGGTCGTGAGAGCTTGTGGTTGCCATTAA

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_007556
- Insert Size:** 1533 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:** [BC138593](#), [AAI38594](#)

**RefSeq Size:** 1907 bp

**RefSeq ORF:** 1533 bp

**Locus ID:** 12161

**UniProt ID:** [P20722](#)

**Cytogenetics:** 13 18.15 cM

**Gene Summary:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Mice lacking this gene exhibit delayed ossification of the sternum, iron overload, and reduced fertility in females. [provided by RefSeq, Jul 2016]