

## Product datasheet for **MC216099**

### **Bmp5 (NM\_007555) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bmp5 (NM_007555) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bmp5
Synonyms:	AU023399; se
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216099 representing NM\_007555  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCATTGGACTGTATTTTTACTTAGGGGTATTGTGGGCTTCCTCTGGAGCGGCTGGGTTCAAGTGGGTT  
 ATGCAAAAAGGAGGCTTGGGAGACAATCACGTTCACTCCAGTTTTATTTATAGAAGGCTACGGAACCATGA  
 GAGACGGGAAATACAGAGGGAAATCTGTCTATTTTGGGTTTGCCTCACAGACCCAGGCCCTTTTACCA  
 GGGAAACAAGCATCTTCTGCCCCCTCTTTATGCTGGATCTCTACAATGCCATGGCTAGCGAAGACAACC  
 CTGAGGAGTGGAGTATTTGGTGGGGTGTCCCTGGCTGGAGAGGCCAAAGAGACAAGAAAGGGATACCC  
 AGCCTCTCCCAATGGGTATGCGCATCGTCTGCACTTACCACCAAGGACTCCTCTGACTACCCAGAGCCCA  
 CCTTTGCCAGCTACATGATACCAACTTTCTGAATGATGCTGACATGGTCATGAGCTTTGTCAACTTAG  
 TTGAAAGAGACAAGGACTTTTCTCATCAGAGGAGGCATTACAAAGAGTTTCGGTTTGATCTGACCCAGAT  
 TCCACATGGAGAAGCAGTGACAGCAGCAGAATCCGGATTTATAAGGACAAGGAAACCATCGATTTGAA  
 AATGAAACAATTAAGATCAGCATATATCAGATCATCAAGGAATACACAAACAGGGATGCAGATCTTTTTT  
 TGCTAGATACGAGGAAGACACAAGCTTTAGATGTGGGCTGGCTTGTCTTTGATATCACTGTGACCAGCAA  
 CCACTGGGTGATTAATCCACAGAACAATTTGGGCTTACAGCTCTGTGAGAGACGGGGATGGCCGAGC  
 ATCAATGTAAAATCTGCTGGTCTTGTGGGAAGACATGGGCCTCAGTCAAAACAGCCATTCATGGTGGCT  
 TCTTCAAGGCAAGCGAGGTACTTCTCGATCCGTGAGAGCAGCCAGCAAAACGGAAAAATCAAACCGCAA  
 TAAATCCAACCTCATCAGGACCCCTCCAGGATGCCAGTGTGGAGATTATAATACCAGTGAACAAAAA  
 CAAGCCTGCAAGAAGCACGAACCTATGTGAGTTTCCGAGATCTGGGATGGCAGGACTGGATCATAGCAC  
 CAGAAGGTATGCTGCATTTTATTGTGACGGGGAATGTTCTTTTCCACTTAATGCCCATATGAATGCCAC  
 CAACCATGCCATAGTCCAGACCCCTGGTACACCTGATGTTTCCAGACCATGTTCCCAAGCCTTGCTGCGCT  
 CCAACCAAATAATGCCATCTCGGTCCTGATTTTTGATGACAGCTCCAATGTCATTTTAAAAAGTACA  
 GAAATATGGTAGTACGTTCTGTGGCTGCCACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_007555

**Insert Size:** 1365 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_007555.4](#), [NP\\_031581.2](#)

**RefSeq Size:** 3827 bp

**RefSeq ORF:** 1365 bp

**Locus ID:** 12160

**UniProt ID:** [P49003](#)

**Cytogenetics:** 9 42.34 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, which plays a role in bone and cartilage development. Mice with null mutations in this gene exhibit a short ear phenotype, which is characterized by reduced size of the external ear, altered size and shape of the sternum, and other skeletal and soft-tissue abnormalities. [provided by RefSeq, Jul 2016]