

## Product datasheet for **MC216933**

### **Gdf5 (NM\_008109) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gdf5 (NM_008109) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gdf5
Synonyms:	b; BMP-14; bp; brp; CDMP-; Cdmp-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216933 representing NM\_008109  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGACTCCCCAACTCCTCACTCTTTTGTGTGGCACCTGGCTTGGCTGGACCTGGAACCTCATCTGCA  
 CTGTGCTGGGTGCCCTGACTTAGGACAGAGAACCCAGGGGCCAAGCCAGGGTTGACCAAAGCGGAGGC  
 CAAGGAGAGGCCACCCCTGGCCAGGAATGTCTTTAGGCCAGGGGTTCATATCTATGGTGTGGGGCCACC  
 AATGCCAGGGCCAAGGGAAGCTCTGGGCAGACACAGGCCAAGAAGGATGAACCCAGAAAGATGCCCCCA  
 GATCCGGTGGCTCTGAAACCAAGCCAGGACCTTCCAGACTAGACAGGCTGCAGCCCGACTGTAAC  
 CCCAAAAGGACAGCTTCTGGGGCAAAGCATCTTCAAAGCAGGATCTGCCCCAGCTCCTTCTGCTG  
 AAGAAGACCAGGGAGCCTGGGACCCCTCGAGAGCCCAAGGAGCCGTTCCGCCGCCCCCATCACACCC  
 ACGAATACATGCTCTCCCTGTACAGGACGCTGTCCGATGCTGACAGAAAGGGAGGTAACAGCAGCGTGAA  
 GTTGGAGGCTGGCTGGCCAACACCATCACCAGCTTTATTGACAAAGGGCAAGATGACCGAGGCCCTGCG  
 GTCAGGAAGCAGAGGTACGTGTTTGACATCAGTGCCTTGAGAAGGATGGGCTGTTGGGGCTGAACTGC  
 GGATCTTACGGAAGAAGCCCTTGACGTGGCCAAGCCAGCGGTCCCCAGTAGCGGGCGGGTTGCCAACT  
 GAAGCTGTCCAGCTGCCCGAGCGCCGGCAGCCGGCAGCCTTGCTGGATGTGCGCTCCGTGCCAGGCCTG  
 GATGGATCTGGCTGGGAGGTGTTGACATCTGGAAGCTCTCCGAAATTTAAGAACTCAGCGCAGCTGT  
 GCCTGGAGCTGGAGGCCCTGGGAACGGGGCCGGCCGTGGACCTCCGTGGCTGGGCTTTGAACGCACTGC  
 CCGACAGTCCACGAGAAAGCCTTGTTCTAGTGTGGTTCGTACCAAGAAACGGGACCTGTTCTTTAAT  
 GAGATTAAGGCCCGCTCTGGCCAGGATGACAAGACTGTGATGAATATTTGTTACGCCAGCGCGGAAAC  
 GCCGGCCCATTTGGCCAATCGCCAGGGCAAGCGACCCAGCAAGAACCTCAAGGCTCGTGCAGTCGCAA  
 GGCTTGCATGTCAACTTCAAGGACATGGGCTGGGACGACTGGATCATCGCACCTTTGAGTATGAGGCC  
 TTCCACTGCGAAGGACTGTGTGAGTTCCCTTGCCTCCCACTTGAGGCCACAAACCACGAGTATTC  
 AGACCCTAATGAACTCTATGGACCCTGAATCCACACCACCACCTTGTGTGTGCCTACACGGCTGAGTCC  
 TATTAGCATCCTTTCATCGACTCTGCCAACACGTGGTGTATAAACAGTACGAGGACATGGTCGTGGAA  
 TCTTGTGGCTGCAGGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_008109

**Insert Size:** 1488 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:** [BC034546](#), [AAH34546](#)

**RefSeq Size:** 2371 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 14563

**UniProt ID:** [P43027](#)

**Cytogenetics:** 2 77.26 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 the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mice with a mutation in this gene exhibit enhanced tooth enamel formation. [provided by RefSeq, Aug 2016]