

## Product datasheet for **MC216051**

### **Gdf7 (NM\_013527) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gdf7 (NM_013527) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gdf7
Synonyms:	BMP1; BMP12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216051 representing NM\_013527  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCTGAGCGCTGCCGCCGCGCTGTGTCTCTGGTGCTGAGCGCTTGCCGTCCCCGCGACGGGCTAG  
AAGCTGCCGCGGTGCTCCGAGCGCGGGGGCTGGACCAGCTGGAGCCCCGGGGCGCGCGCGCGGGG  
GACCCTCGCCCGGGCTCCAGGCCCTTCAGCTCTCAGGCCGCTGCGGTTCCGGGTCCCGAGCTGTGCGC  
CGCGCTGCGGGTTCTGGCTTCAGGAACGGCTCGTGGTGCCACACCACTTCATGATGTGCTTTACAGG  
GCCTGGCGGGGAGGGCTCCGGTCGCGGCAGCTTCAGGGACGGGCGTGTGGACACAATCACCGGCTTCAC  
AGACCAAGCAACTCAAGGCCAGAGCTTCTGTTGACGTATCCAGCCTCTCCGAAGCCGATGAGGTGGTG  
AATGCGGAGCTGCGCGTGCTGCGCCGGAGGTCTCCGAACACAGACGGGACAGTGCAGACCTCCTTCCG  
GGCTGCTGCTGTCCACGTGCCCGGACGAGGCTGGCAGCTACCTGTGCACTCCCGGCCCGCGAGCC  
CCTGGGCGGCGCGCTGGGAAGCGTTGACAGTCAGGACGCGGTTGCAGAGCCACCCGCGCTGGCCGCGA  
GCCTCCCGCAAGTTCTGCCTGGTGTGCGCGCGGTGACGGCCTCGGAGAGCAGCCCGCTGGCCCTGAGAG  
GACTGGGCTTCGGCTGGCCGGGCGGTGGCGACGCGCGGCGCACTGCGGCCGAGGAGCGCGCGCTGTTGGT  
GATCTCCTCCCGTACGCAAAGGAAAGAGAGTCTGTTCCGGGAGATCCGAGCCCAGGCCGTGCTCTCCG  
GCCGTGCAGAGCCGCCACCGGATCCAGGACCAGGCGCTGGGTACGCAAAGCCAACCTGGGCGGTGCGA  
GGCGGCGGCGGACTGCGCTGGCTGGGACTCGGGGAGCGCAGGGAAGCGGTGGTGGCGGCGGTGGCGGTGG  
CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGCAGGGGCCACGGGCGCAGAGGCCGGAGC  
CGCTGCAGTCGCAAGTCACTGCACGTGGACTTTAAGGAGCTGGGCTGGGACGACTGGATCATCGCGCCAT  
TAGACTACGAGGATACCACTGCGAGGGCGTTTGCGACTTTCCTCTGCGCTCGCACTGGAGCCTACCAA  
CCACGCCATCATTCAGACGCTGCTCACTCCATGGCGCCGACGCTGCGCCAGCCTCCTGCTGCGTGCCC  
GCAAGGCTCAGTCCCATCAGACTTCTCTACATCGATGCCGCCAACACGTGGTCTACAAGCAGTACGAAG  
ACATGGTGGTGGAGGCTGCGGCTGCAGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_013527
Insert Size:	1362 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_013527.1, NP_038555.1</u>
<b>RefSeq Size:</b>	1399 bp
<b>RefSeq ORF:</b>	1362 bp
<b>Locus ID:</b>	238057
<b>UniProt ID:</b>	<u>P43029</u>
<b>Cytogenetics:</b>	12 A1.1
<b>Gene Summary:</b>	<p>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 may play a role in the differentiation of tendon cells and spinal cord interneurons. Mice lacking a functional copy of this gene exhibit absence of some spinal dopaminergic neurons and brain defects, male sterility, and premature death. [provided by RefSeq, Sep 2016]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1. 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.</p>