

## Product datasheet for **MR226292**

### Gdf7 (NM\_013527) Mouse Tagged ORF Clone

#### Product data:

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



[View online »](#)

**ORF Nucleotide Sequence:**

>MR226292 representing NM\_013527  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACCTGAGCGCTGCCGCCGCTGTGTCTCTGGCTGCTGAGCGCTTGCCGTCGCCGCGACGGGCTAG  
 AAGCTGCCGCGGTGCTCCGAGCGCGGGGCTGGACCAGCTGGAGCCCCGGGGCGGCGCGCGGGCG  
 GACCTCGCCCGGCTCCAGGCCCTCAGCTCTCAGGCCGCTGCGGTTCCGGGTCGCCGAGCTGTGCGC  
 CGCGCTGCGGGTCTGGCTTCAGGAACGGCTCGGTGGTCCACACCACTCATGATGTCGCTTTACAGGA  
 GCCTGGCGGGGAGGGCTCCGGTCGCGGCAGCTTCAGGGCACGGGCGTGTGGACACAATCACCGGCTTAC  
 AGACCAAGCAACTCAAGGCCAGAGCTTCTGTTCGACGTATCCAGCCTCTCCGAAGCCGATGAGGTGGT  
 AATGCGGAGCTGCGCGTGTGCGCCGAGGTCTCCGGAACCAGACAGGGACAGTGCACCCCTCTCCGC  
 GGCTGCTGCTGTCCAGTGCCTGGACGAGGCTGGCACAGCTCACCTGCTGCACTCCCGGGCCCGGAGCC  
 CCTGGGCGGCGCGCTGGGAAGCGTTCGACGTGACGGACGCGGTGCAGAGCCACCGCCGCTGGCCGCA  
 GCCTCCCGCAAGTTCTGCCTGGTGTGCGCGCGGTGACGGCTCGGAGAGCAGCCGCTGGCCCTGAGAC  
 GACTGGGCTTCGGCTGGCCGGGCGGTGGCGACGGCGCGGCACTGCGGCCGAGGAGCGCGCGCTGTTGGT  
 GATCTCTCTCCCGTACGCAAAGGAAAGAGAGTCTGTTCCGGGAGATCCGAGCCCAGGCCCGTCTCTCCGG  
 GCCGCTGCAGAGCCGCCACCGGATCCAGGACCAGGCGCTGGGTACGCAAAGCCAACCTGGGCGGTGCA  
 GGCGGCGCGGACTGCGCTGGCTGGGACTCGGGGAGCGCAGGGAAGCGGTGGTGGCGGCGGTGGCGGTG  
 CGG  
 CGCTGCAGTCCAAAGTCACTGCACGTGGACTTTAAGGAGCTGGGTGGGACGACTGGATCATCGCGCCAT  
 TAGACTACGAGGCATACCACTGCGAGGGGTTTGGGACTTCTCTGCGCTCGCACCTGGAGCCTACCAA  
 CCACGCCATCATTAGACGCTGCTCAACTCCATGGCGCCCGAGCTGCGCCAGCCTCTGCTGCGTGCCTGCC  
 GCAAGGCTCAGTCCCATCAGATTCTCTACATCGATGCCGCCAACACGTGGTCTACAAGCAGTACGAAG  
 ACATGGTGGTGGAGGCTGCGGCTGCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226292 representing NM\_013527  
 Red=Cloning site Green=Tags(s)

MDLSAAAALCLWLLSACRPRDGLEAAAVLRAAGAGPAWSPGGGGGRTLARAPGPSALQAAAVPGPRAVR  
 RAAGSGFRNGSVVPHHFMMSLYRSLAGRAPVAAASGHGRVDTITGFTDQATQGQSFLLFDVSSLSEADEVV  
 NAELRVLRRRSPEPDRDSATLLPRLLLSTCPDEAGTAHLLHSRAAEPLGGARWEAFDVTDAVQSHRRWPR  
 ASRKFLVLRVTAESSPLALRRLGFGWPGGDGGGTAEEERALLVISSRTQRKESLFREIRAQARALR  
 AAAPPPDPGPGAGSRKANLGGRRRRRTRALAGTRGAQGSGGGGGGGGGGGGGGGGGGAGRGHRRGRS  
 RCSRSLHVDKELGWDDWIIAPLDYEAHYHCEGVCDFPLRSHLEPTNHAIQTLNMAPDAAPASCCVP  
 ARLSPISILYIDAANNVYKQYEDMVVEACGCR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9008\\_b08.zip](https://cdn.origene.com/chromatograms/mm9008_b08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_013527

**ORF Size:** 1359 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

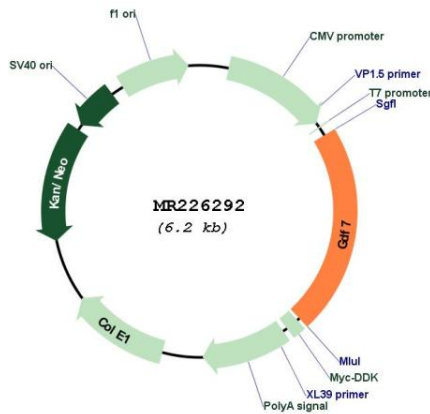
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_013527.1, NP\\_038555.1](#)  
**RefSeq Size:** 1399 bp  
**RefSeq ORF:** 1362 bp  
**Locus ID:** 238057  
**UniProt ID:** [P43029](#)  
**Cytogenetics:** 12 A1.1  
**MW:** 47.6 kDa

**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 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]

**Product images:**



Circular map for MR226292