

Product datasheet for **MG226292**

Gdf7 (NM_013527) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf7 (NM_013527) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gdf7
Synonyms:	BMP1; BMP12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226292 representing NM_013527
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACCTGAGCGCTGCCGCCGCTGTGTCTCTGGCTGCTGAGCGCTTGCCGTCGCCGCGACGGGCTAG
 AAGCTGCCGCGGTGCTCCGAGCGCGGGGCTGGACCAGCCTGGAGCCCCGGGGCGGCGCGCGGGCG
 GACCTCGCCCGGCTCCAGGCCCTCAGCTCTCCAGGCCGCTGCGGTTCCGGTCCCGAGCTGTGCGC
 CGCGCTGCGGGTCTGGCTTCAGGAACGGCTCGGTGGTCCACACCACCTCATGATGTCGCTTTACAGGA
 GCCTGGCGGGGAGGGCTCCGGTCGCGGCAGCTTCAGGGCACGGGCGTGTGGACACAATCACCGGCTTAC
 AGACCAAGCAACTCAAGGCCAGAGCTTCTGTTCGACGTATCCAGCCTCTCCGAAGCCGATGAGGTGGT
 AATGCGGAGCTGCGCGTGTGCGCCGAGGTCTCCGAACCAGACAGGGACAGTGCACCCCTCTCCGC
 GGCTGCTGCTGTCCAGTGCCTGGACGAGGCTGGCACAGCTCACCTGCTGCACTCCCGGGCCCGGAGCC
 CCTGGGCGGCGCGCTGGGAAGCGTTCGACGTGACGGACGCGGTGCAGAGCCACCGCCGCTGGCCGCA
 GCCTCCCGCAAGTTCTGCCTGGTGTGCGCGCGGTGACGGCTCGGAGAGCAGCCGCTGGCCCTGAGAC
 GACTGGGCTTCGGCTGGCCGGGCGGTGGCGACGGCGCGGCACTGCGGCCGAGGAGCGCGCGCTGTTGGT
 GATCTCTCTCCCGTACGCAAAGGAAAGAGAGTCTGTTCCGGGAGATCCGAGCCCAGGCCCGTCTCCGG
 GCCGCTGCAGAGCCGCCACCGGATCCAGGACCAGGCGCTGGGTACGCAAAGCCAACCTGGGCGGTGCA
 GGCGGGCGGCGACTGCGCTGGCTGGGACTCGGGGAGCGCAGGGAAGCGGTGGTGGCGGGGTGGCGGTG
 CGG
 CGCTGCAGTCGCAAGTCACTGCACGTGGACTTTAAGGAGCTGGGTGGGACGACTGGATCATCGGCCAT
 TAGACTACGAGGCATACCCTGCGAGGGCTTTGCGACTTCTCTGCGCTCGCACCTGGAGCCTACCAA
 CCACGCCATCATTAGACGCTGCTCAACTCCATGGCGCCGACGCTGCGCCAGCCTCCTGCTGCGTGCCC
 GCAAGGCTCAGTCCCATCAGATTCTCTACATCGATGCCGCAACAACGTGGTCTACAAGCAGTACGAAG
 ACATGGTGGTGGAGGCTGCGGCTGACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226292 representing NM_013527
 Red=Cloning site Green=Tags(s)

MDLSAAAALCLWLLSACRPRDGLEAAAVLRAAGAGPAWSPGGGGGRTLARAPGPSALQAAAVPGPRAVR
 RAAGSGFRNGSVPHHFMMSLYRSLAGRAPVAAASGHGRVDTITGFTDQATQGQSFLLFDVSSLSEADVV
 NAELRVLRRRSPEPDRDSATLLPRLLLSTCPDEAGTAHLLHSRAAEPLGGARWEAFDVTDAVQSHRRWPR
 ASRKFCLVLRVTAASESSPLALRRLGFGWPGGGDGGGTAAEERALLVISSRTQRKESLFREIRAQARALR
 AAAPPPDPGPGAGSRKANLGGRRRRRRTALAGTRGAQSGGGGGGGGGGGGGGGGGGGGGAGRGHRRGRS
 RCSRSLHVDKELGWDDWIIAPLDYEAHYCEGVDFPLRSHLEPTNHAIQTLLNSMAPDAAPASCCVP
 ARLSPISILYIDAANNVYKQYEDMVVEACGCR

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2236_c06.zip

Restriction Sites:

SgfI-MluI

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 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:

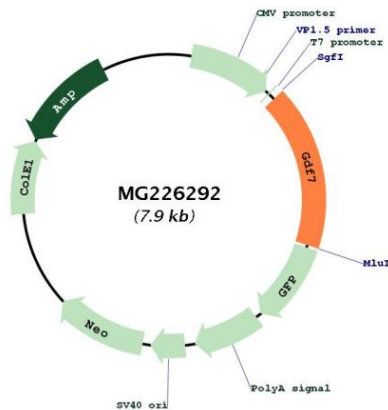
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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

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 MG226292