OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC216051 representing NM_013527
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCTGAGCGCTGCCGCCGCGCTGTGTCTCTGGCTGCTGAGCGCTTGCCGTCCCCGCGACGGGCTAG
AAGCTGCCGCGGTGCTCCGAGCGGCGGGGGCTGGACCAGCCTGGAGCCCCGGGGGCGGCGGCGGCGGGCG
GACCCTCGCCCGGGCTCCAGGCCCTTCAGCTCTCCAGGCCGCTGCGGTTCCGGGTCCCCGAGCTGTGCGC
CGCGCTGCGGGTTCTGGCTTCAGGAACGGCTCGGTGGTGCCACACCACTTCATGATGTCGCTTTACAGGA
GCCTGGCGGGGAGGGCTCCGGTCGCGGCAGCTTCAGGGCACGGGCGTGTGGACACAATCACCGGCTTCAC
AGACCAAGCAACTCAAGGCCAGAGCTTCCTGTTCGACGTATCCAGCCTCTCCGAAGCCGATGAGGTGGTG
AATGCGGAGCTGCGCGTGCTGCGCCGGAGGTCTCCGGAACCAGACAGGGACAGTGCGACCCTCCTTCCGC
GGCTGCTGCTGTCCACGTGCCCGGACGAGGCTGGCACAGCTCACCTGCTGCACTCCCGGGCCGCCGAGCC
CCTGGGCGGCGCGCGCTGGGAAGCGTTCGACGTGACGGACGCGGTGCAGAGCCACCGCCGCTGGCCGCGA
GCCTCCCGCAAGTTCTGCCTGGTGCTGCGCGCGGTGACGGCCTCGGAGAGCAGCCCGCTGGCCCTGAGAC
GACTGGGCTTCGGCTGGCCGGGCGGTGGCGACGGCGGCGGCACTGCGGCCGAGGAGCGCGCGCTGTTGGT
GATCTCCTCCCGTACGCAAAGGAAAGAGAGTCTGTTCCGGGAGATCCGAGCCCAGGCCCGTGCTCTCCGG
GCCGCTGCAGAGCCGCCACCGGATCCAGGACCAGGCGCTGGGTCACGCAAAGCCAACCTGGGCGGTCGCA
GGCGGCGGCGGACTGCGCTGGCTGGGACTCGGGGAGCGCAGGGAAGCGGTGGTGGCGGCGGTGGCGGTGG
CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGCAGGCAGGGGCCACGGGCGCAGAGGCCGGAGC
CGCTGCAGTCGCAAGTCACTGCACGTGGACTTTAAGGAGCTGGGCTGGGACGACTGGATCATCGCGCCAT
TAGACTACGAGGCATACCACTGCGAGGGCGTTTGCGACTTTCCTCTGCGCTCGCACCTGGAGCCTACCAA
CCACGCCATCATTCAGACGCTGCTCAACTCCATGGCGCCCGACGCTGCGCCAGCCTCCTGCTGCGTGCCC
GCAAGGCTCAGTCCCATCAGCATTCTCTACATCGATGCCGCCAACAACGTGGTCTACAAGCAGTACGAAG
ACATGGTGGTGGAGGCCTGCGGCTGCAGGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

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 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_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]
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.