

Product datasheet for **MG224189**

Gdf2 (NM_019506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf2 (NM_019506) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gdf2
Synonyms:	Bmp; Bmp9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224189 representing NM_019506 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCCGGGCTTCCGGGTGGCCCTGCTCCCGCTGTTCTGCTGGTCTGTGTACACAGCAGAAGC
CGCTGCAGAACTGGGAACAAGCATCCCCTGGGGAAAATGCCACAGCTCCCTGGGATTGTCTGGAGCTGG
AGAGGAGGGTGTCTTTGACCTGCAGATGTTCTGGAGAACATGAAGGTGGATTTCTACGCAGCCTTAAC
CTCAGCGGATTCCCTCCAGGACAAAACCAGAGCGGAGCCACCCAGTACATGATCGACTTGTACAACA
GATACACAACGGACAAATCGTCTACGCCTGCCTCCAACATCGTGCGGAGCTTCAGCGTGAAGATGCTAT
ATCGACAGCTGCCACGGAGGACTTCCCCTTTCAGAAGCACATCCTGATCTTCAACATCTCCATCCCGAGG
CACGAGCAGATCACAGGGCTGAGCTCCGACTCTATGTCTCCTGCCAAAATGATGTGGACTCCACTCATG
GGCTGGAAGGAAGCATGGTCTGTTATGATGTTCTGGAGGACAGTGAGACTTGGGACCAGGCCACGGGGAC
CAAGACCTTCTGGTATCCCAGGACATTCGGGACGAAGGATGGGAGACTTTAGAAGTATCGAGTGCCGTG
AAGCGGTGGTTCAGGGCAGACTCCACAACAAAACAAAATAAGCTCGAGGTGACAGTGACAGGCCACAGGG
AGAGCTGTGACACTGGACATCAGTGTCCCTCCAGGTTCCAAAACCTGCCCTTCTTTGTTGTCTTCTC
CAATGACCGCAGCAATGGGACCAAGGAGACCAGACTGGAGCTGAAGGAGATGATCGGCCATGAGCAGGAG
ACCATGCTTGTGAAGACAGCCAAAATGCTTACCAGGTGGCAGGTGAGAGCCAAGAGGAGGGGCTAG
ATGGATACACAGCTGTGGGACCACTTTTAGCTAGAAGGAAGAGGAGCACCGGAGCCAGCAGCCACTGCCA
GAAGACTTCTCTCAGGGTGAACCTTTGAGGACATCGGCTGGGACAGCTGGATCATTGCACCCAAGGAATAT
GACGCCTATGAGTGTAAGGGGGTGTCTTCTCCATTGGCTGATGACGTGACACCCACCAACATGCCA
TCGTGCAGACCCTGGTGCATCTCAAGTTCCCAACAAAGGTGGGCAAGCCTGCTGCGTTCCACCAAACT
GAGTCCCATCTCCATCTCTACAAGGATGACATGGGGTGCCAACCTCAAGTACCCTATGAGGGGATG
AGTGTGGCTGAGTGTGGGTAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224189 representing NM_019506
 Red=Cloning site Green=Tags(s)

MSPGAFRVALPLFLVCVTQQKPLQNWEQASPGENAHSLSLGSAGAGEGVFDLQMFLNKMVDFLRSLN
 LSGIPSDQKTRAEPQYIMIDL YNRYTTDKSSTPASNIVRSFSVEDAISTAATEDFPFKHILIFNISIPR
 HEQITRAELRL YVSCQNDVDSTHGLEGSMVVYDVLDESETWDQATGKTFVLSQDIRDEGWETLEVSSAV
 KRWVRADSTTNKNKLEVTVQSHRESCDTLDISVPPGSKNLPFFVVF SNDRSNGTKETRLELKEMIGHEQE
 TMLVKTAKNAYQVAGESQEEEGLDGYTAVGPLLARRKRSTGASSHCQKTSLRVNFEDIGWDSWIIAPKEY
 DAYECKGGCFFPLADDVTPTKHAI VQTLVHLKFPTKVGKACCVPTKLSPI SILYKDDMGVPTLKYHYEGM
 SVAECGCR

TRTRPLE - GFP Tag - V

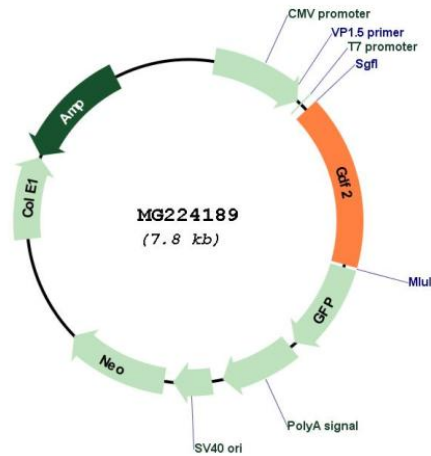
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_019506

ORF Size:	1284 bp
OTI Disclaimer:	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:	<ol style="list-style-type: none">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_019506.4 , NP_062379.3
RefSeq Size:	2988 bp
RefSeq ORF:	1287 bp
Locus ID:	12165
UniProt ID:	Q9WV56
Cytogenetics:	14 B
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 cartilage and bone development, angiogenesis and differentiation of cholinergic central nervous system neurons. Homozygous null mice exhibit malformations of the vasculature and skeleton. [provided by RefSeq, Jul 2016]