

Product datasheet for MC208198

Gdf2 (NM_019506) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf2 (NM_019506) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gdf2
Synonyms:	Bmp; Bmp9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC208198 representing NM_019506 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCCCTGGGGCTTCCGGGTGGCCCTGCTCCCCTGTTCTGCTGGTCTGTGTACACAGCAGAAGC
CGCTGCAGAACTGGGAACAAGCATCCCCTGGGAAAATGCCACAGCTCCCTGGGATTGTCTGGAGCTGG
AGAGGAGGGTGTCTTTGACCTGCAGATGTTCTGGAGAACATGAAGGTGGATTTCTACGCAGCCTTAAC
CTCAGCGGCATTCCCTCCAGGACAAAACAGAGCGGAGCCACCCAGTACATGATCGACTTGTACAACA
GATACACAACGGACAAATCGTCTACGCCTGCCTCCAACATCGTGCAGGAGCTTCAGCGTGGAAAGTGCAT
ATCGACAGCTGCCACGGAGGACTTCCCCTTTCAGAAGCACATCCTGATCTTCAACATCTCCATCCCAGG
CACGAGCAGATCACCAGGGCTGAGCTCCGACTCTATGTCTCCTGCCAAAATGATGTGGACTCCACTCATG
GGCTGGAAGGAAGCATGGTCTTTATGATGTTCTGGAGGACAGTGAAGTGGAGACTTGGGACCAGGCCACGGGAC
CAAGACCTTCTTGGTATCCCAGGACATTCGGGACGAAGGATGGGAGACTTTAGAAGTATCGAGTGCCGTG
AAGCGGTGGTTCAGGGCAGACTCCACAACAAACAAAAAATAGCTCGAGGTGACAGTGACAGCCACAGGG
AGAGCTGTGACACTGGACATCAGTGTCCCTCCAGGTTCCAAAAACCTGCCCTTCTTTGTGCTTCTC
CAATGACCGCAGCAATGGGACCAAGGAGACCAGACTGGAGCTGAAGGAGATGATCGGCCATGAGCAGGAG
ACCATGCTTGTGAAGACAGCCAAAAATGCTTACCAGGTGGCAGGTGAGAGCCAAGAGGAGGAGGGTCTAG
ATGGATACACAGCTGTGGGACCCTTTTAGCTAGAAGGAAGAGGAGCACCAGGAGCCAGCAGCCACTGCCA
GAAGACTTCTCAGGGTGAACCTTTGAGGACATCGGCTGGGACAGCTGGATCATTGCACCAAGGAATAT
GACGCCTATGAGTGTAAAGGGGTTGCTTCTTCCCATTGGCTGATGACGTGACACCCACCAAAACATGCCA
TCGTGCAGACCCTGGTGCATCTCAAGTTCACCAAAAGGTGGCAAAAGCCTGCTGCGTTCACCAAACT
GAGTCCCATCTCCATCCTCTACAAGGATGACATGGGGTGCCAACCCTCAAGTACCCTATGAGGGGATG
AGTGTGGCTGAGTGTGGGTAGG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_019506
Insert Size:	1287 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_019506.4</u> , <u>NP_062379.3</u>
RefSeq Size:	2988 bp
RefSeq ORF:	1287 bp
Locus ID:	12165
UniProt ID:	<u>Q9WV56</u>
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]