

Product datasheet for **RN213368**

Gdf1 (NM_001044240) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf1 (NM_001044240) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gdf1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN213368 representing NM_001044240 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCCTGTCTGCCACCGTTTTTGGCACCACCTCCTCCTTCTGCTCTTGTGTCCTCAACGACCTGG
CCCACGCGCCAGCATCCTTGGGCCCGCTGCCCCCTGCTCCAGTTCTCGGGCTTCCCAGAACGCCCGG
GAGCGTCCCACACTCCGACCTGTCCCTGTCATGTGGCCCTATTCGCGAGCCGCAACCCAGGAG
GCCAGAGTGGGGCGCCCTCTGAAACCATGCCACGTGGAGGAACTGGGGTTGCCGAAACATTGTGCGCC
ACATCCCCGACAGCGGTCTGTCTCCAGGATCATAACAGCCGCCAGAACCTCAGGGCTGTGCCCCGAGTG
GACCGTGTCTTTGACCTGTGAGCGTGGAGCCATAGAGCGCCAAACGCGCGCGCCTAGAGTTGCGG
CTGGAGGCTGAGAGCGAAGATACACGAGGGTGGGAGCTAAGCGTGGCGCTGTTGGCCGAGGCTGAGCATC
CTGGCCCTGAGCTACTGCGCGTGCAGGGCCACCCGGGCTGCCACTGCGCGCAGACCTACTGGGACTGC
AGTAGCGGCTAACGCATCGGTGCCGCGCACTCTGCGCTTGGCGTGGCGCTGCACCCTGGGGCCGCTGCA
ACCTGTGGGCGCCTGGCTGAGGCCTCGTTGCTGCTGGTGACGCTGGACCCAGCCTGTGTCCCTTGGCG
GGTCACGGCGCCACACGGAGCCAGGGTGGGAGGTGGTCCAGTGGGCACATGTGCGACCCGACGGTTGCA
CGTGAGCTTCCGTGAGGTGGGCTGGCACCGCTGGGTGATTGCGCCGCGGGGCTTTCTAGCCAACCTCTGC
CAGGGCACGTGTGCGCTACCTGAAACACTGAGGGGACCCGGCGGGCCGCTGCACTTAACACGCTGTGC
TGCGCGCGCTCATGCACGAGCTGCTCCACCCGGGTGAGGCTCGCCCTGCTGCGTGCCAGAGCGTCT
GTCGCCTATCTCCGTGCTTCTTCGATAATAGTGACAACGTGGTGTGCGCCACTACGAGGACATGGTG
GTGGATGAGTGTGGCTGTCG**TGA**

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001044240
Insert Size:	1074 bp



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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_001044240.2</u> , <u>NP_001037705.1</u>
RefSeq Size:	2683 bp
RefSeq ORF:	1074 bp
Locus ID:	306351
Cytogenetics:	16p14
Gene Summary:	This gene encodes a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site that is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. The mouse ortholog of this gene is involved in the establishment of left-right asymmetry in early embryogenesis and in neural development in later embryogenesis. This protein is transcribed from a bicistronic mRNA that also encodes the LAG1 homolog, ceramide synthase 1 gene. Mono-cistronic transcripts for this gene are also found in mouse, but it is not known if they exist in rat. [provided by RefSeq, Jul 2009]