

## Product datasheet for **RR210807**

### Gdf2 (NM\_001106096) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf2 (NM_001106096) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210807 representing NM_001106096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCCTGGGGCCTCCGGGTGGTCCTGCTCACGCTGCTCCTGCTGGTCTGTCCCACGCAGCAGAAGC  
CGCTGCAGAGCTGGGGCAGGCATCCCCGGGGAAATGCCCGCAGCTCCCTGGGATTGTCTGGAAGCAG  
AGAGGAGGGCGTCTTTGACCTGAAGATGTTCTGGAGAACATGAAAGTGGACTTCCTGCGCAGCCTTAAC  
CTGAGTGGCATTCCCTCTCAGGACAAAACAGAGCGGAGCCACCCAGTACATGATCGACTTGTAACA  
GATACACTACGGACAAGTCGTCCACGCCCTCCAACATCGTGGGAGCTTCAGCGTGGAAAGTGCAT  
ATCGACAGCTGCCACAGAGGACTTCCCCTTCCAGAAACACATCCTGATCTTCAACATCTCCATCCC  
TAGG CACGAGCAGATCACAGGGCTGAGCTCCGTCTCTATGTCTCCTGTCAAAATCACGTGGACTCCACTCACG  
GGCTGGAAGGAAACATGGTCTTTACGATGTTCTGGATGTTGATGAGACTTGGGACAGTGCCTCGGGGAC  
CAAGACCTTCTGGTATCCCAGGACATTCAGGATGAGGGCTGGGAGACCCTGGAAGTGTGAGTGCCTG  
AAGCGTTGGTACGGCAGACTCCACGACCAACAAAAACAAGCTGGAGGTGACGGTGCAGAGACATAGGG  
AGGGCTGTAGCACACTGGACATCAGTGTCCCTCCGGGCTCCAAAACCTGCCCTTCTTTGTCGTCTTCTC  
CAATGACCGCAGCAATGGACCAAGGAGACCAGACTGGAGCTGAAGGAGATGATTGGCCACGAGCAGGAG  
ACCGTGTGTGAAGACATCCAAAATGCCTACCAGGAGGCTGGGAGAGCCGTGAGGAGGAGGAGCGTA  
TAGATGGGTACACAGCTGTGGGACCGCTTTTAGCTAGAAGGAAGAGGAGCACTGGTGCAGCCAGCAGCCA  
CTGCCAGAAGACTTCTCTCAGGGTGAACCTTGGAGACATCGGCTGGGACAGCTGGATCATCGCACCCAAG  
GAATATGATGCCTACGAGTGTAAGGAGGCTGCTTCTCCCGCTGGCTGATGACGTGACACCCACCAAAAC  
ACGCCATCGTGCAGACCCTGGTGCATCTCAAGTCCCCACGAAGTGGGCAAAGCCTGCTGCGTCCCCAC  
CAAAGTGAAGTCTATCTCCATCTCTACAAGGATGACATGGGCGTGCCAACCTCAAGTACCACTACGAG  
GGGATGAGTGTGGCCGAGTGTGGGTGCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR210807 representing NM\_001106096  
 Red=Cloning site Green=Tags(s)

MSPGAFRVVLLTLLLLVCPTQQKPLQSWGQASPGGNARSSLGLSGSREEGVFDLKMFLNKMVDFLRSLN  
 LSGIPSQDKTRAEPQYMIDL YNRYTTDKSSTPASNIVRSF SVEDAISTAATEDFPFKHILIFNISIPR  
 HEQITRAELRL YVSCQNHVDSTHGLEGNM VVYDVLVDVDETWDSASGKTFLV SQDIQDEGWETLEVSSAV  
 KRWRADSTTNKNKLEVTVQRHREGCSTLDI SVPPGSQNL PFFVVF SNDRSNGTKETRELKEMIGHEQE  
 TVLVKTSKNAYQEAGESREEEERIDGYTAVGPLLARRKRSTGAASSHCQKTSLRVNFEDIGWDSWIIAPK  
 EYDAYECKGGCFPLADDVTPTKHAI VQTLVHLKFPTKVGKACCVPTKLSPI SILYKDDMGVPTLKYHYE  
 GMSVAECGCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2294\\_a08.zip](https://cdn.origene.com/chromatograms/ja2294_a08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001106096

**ORF Size:** 1290 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](mailto: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\\_001106096.1](#), [NP\\_001099566.1](#)

**RefSeq Size:** 2928 bp

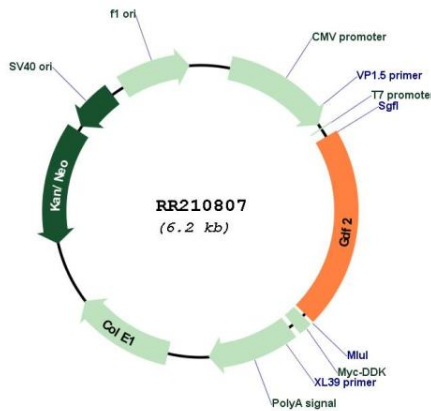
**RefSeq ORF:** 1293 bp

**Locus ID:** 290921

**Cytogenetics:** 16p16

**MW:** 48.4 kDa

**Product images:**



Circular map for RR210807