

## Product datasheet for **RR216581**

### Gdf11 (NM\_017203) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gdf11 (NM_017203) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gdf11
Synonyms:	BMP-11
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216581 representing NM_017203 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTGCTCGGGCCCCGCTGCTGCTGGGCTTCTGCTCCTCGCCCTGGAGCTGCGGCCCGGGGGAGG  
CGGCCGAGGGCCCCGCGCGCGCGCGCGCAGCGCGCGCGCGCGCGGGTTCGGGGGGAGCGCTCCAG  
CCGGCCGCCCCGCTCCGCTGCACCGGAGCCGGACGGCTGCCCCGTGTGCGTGTGGCGGCAGCACAGCCGC  
GAGCTGCGCCTGGAGAGCATCAAGTCGAGATCCTGAGCAAACCTGCGGCTCAAGGAGGCGCCCAACATCA  
GCCGGGAGGTGGTGAAGCAGCTGCTGCCAAGGCGCCCGCTGCAGCAGATCCTGGATCTGCACGACTT  
CCAAGGCGACGCGCTGCAGCCCGAGGACTTCTTGAAGAGGACGAGTACCACGCTACCACCGAGACGGTC  
ATAAGCATGGCCAGGAGACGGACCCTGCAGTGCAGACAGACGGCAGCCCTCTGTGTTGCCATTTCCACT  
TCAGCCCCAAGGTGATGTTCAAAAGGTAAGGCTGAAGGCCAACTGTGGGTGTACCTCCGGCCTGTGCCCG  
CCCAGCAACAGTCTACCTGCAGATCTTACGACTGAAGCCCTAACTGGGAAGGGACCGCAGGGGGAGGG  
GGTGGAGGCCGGCGTACATCCGGATCCGGTCACTAAAAATTGAGCTACACTCACGCTCCGGCCACTGGC  
AGAGCATCGACTTCAAGCAAGTGTACACAGCTGGTTTCGCCAGCCACAAAGCAACTGGGAATCGAGAT  
CAACGCCTTTGATCCAGTGGCAGACAGCTGGCTGTCACCTCCCTGGGGCCAGGAGCTGAGGGGCTGCAC  
CCTTTCATGGAGCTTCGAGTTCTAGAGAACACAAAGAGTCCCGCGGAACCTAGGCCTAGACTGCGATG  
AACACTCGAGTGAAGTCCCGCTGCTGCCGATACCCTCTCACAGTGGACTTCGAGGCTTTTGGCTGGGACTG  
GATCATCGCACCTAAGCGCTACAAGGCCAACTACTGCTCCGGCCAGTGCGAATACATGTTTCATGCAAAA  
TATCCACACACCCACTTGGTGAACAGGCCAACCCACGAGGCTCTGCTGGGCCCTGCTGCACCCCTACCA  
AGATGTCCCAATCAACATGCTCTACTTCAATGACAAGCAGCAGATTATCTACGGCAAGATCCCTGGCAT  
GGTGGTGGATCGATGTGGCTGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR216581 representing NM\_017203  
 Red=Cloning site Green=Tags(s)

MVLAAPLLLGFLLLALELRPRGEEAEGPAAAAAAAAAAGVGGERSRPAPSAPEPDGCPVCVWRQHSR  
 ELRLESIKSQILSKLRLKEAPNISREVVKQLLPKAPLQQILDLDHDFQGDALQPEDFLEEDEYHATTETV  
 ISMAQETDPAVQTDGSPLCCHFHFSPKVMFTKVLKAQLWVYLRPVPRPATVYLQILRLKPLTGEGTAGGG  
 GGGRRHIRIRSLKIELHSRSGHWQSIDFKQVLHSWFRQPQSNWGIENAFDPSGTDLAVTSLGPGAELGH  
 PFMELRVLENTKRSRRNLGLDCDEHSSESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFQK  
 YPHTHLVQQANPRGSAGPCCTPTKMSPINMLYFNDKQQIIYGKIPGMVVDRCGCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

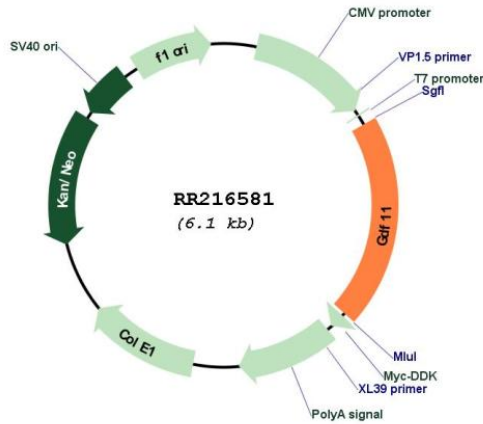
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_017203

<b>ORF Size:</b>	1215 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017203.1</a> , <a href="#">NP_058899.1</a>
<b>RefSeq Size:</b>	4013 bp
<b>RefSeq ORF:</b>	1218 bp
<b>Locus ID:</b>	29454
<b>UniProt ID:</b>	<a href="#">Q9Z217</a>
<b>Cytogenetics:</b>	7q11
<b>MW:</b>	44.9 kDa
<b>Gene Summary:</b>	member of the bone morphogenetic protein/transforming growth factor beta (BMP/TGFbeta) superfamily expressed in adult dental pulp and brain [RGD, Feb 2006]