

## Product datasheet for **RC237748**

### GDF 9 (GDF9) (NM\_001288826) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GDF 9 (GDF9) (NM\_001288826) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GDF9  
**Synonyms:** POF14  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237748 representing NM\_001288826  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAGAAGCTCTATAAGACATATGCTACCAAGGAAGGGATTCTAAATCCAATAGAAGTCACCTCTACA  
 AACTGTTTCGGCTCTTCACCCCCTGTACCCGGCACAAGCAGGCTCCTGGAGACCAGGTAACAGGAATCCT  
 TCCATCAGTGGAACTGCTATTTAACCTGGATCGCATTACTACCGTTGAACACTTACTCAAGTCAGTCTTG  
 CTGTACAATATCAACAACCTCAGTTTCTTTTTCCTCTGCTGCAAATGTGTGTGCAATCTAATGATAAAGG  
 AGCCAAAGTCTTCTAGCAGGACTCTCGGCAGAGCTCCATACTCATTTACCTTTAACTCACAGTTTGAATT  
 TGGAAAGAAACACAAATGGATTGAGATTGATGTGACCAGCCTCCTTCAACCTTTAGTGGCCTCCAACAAG  
 AGAAGTATTCACATGCTATAAATTTTACTTGCATGAAAGACCAGCTGGAGCATCCTTCAGCACAGAATG  
 GTTTGTTAACATGACTCTGGTGTCCCCCTCACTGATCTTATATTTGAATGACACAAGTGCTCAGGCTTA  
 TCACAGCTGGTATTCCTTCACTATAAAGGAGGCCTCCAGGGTCTGACCAGGAGAGAAGTCTGTCT  
 GCCTATCCTGTGGGAGAAGAGGCTGCTGAGGATGGGAGATCTCCCATCACCGTCACCCGAGAGGTCAGG  
 AAATGTCAGTTCTGAATTGAAGAAGCCCTTGGGCCAGCTTCTTCAATCTGAGTGAATACTTTCAGACA  
 ATTTCTTCTCCCAAAATGAGTGTGAGCTCCATGACTTTAGACTTAGCTTTAGTCAGCTGAAGTGGGAC  
 AACTGGATTGTGGCTCCGCACAGGTACAACCCTCGATACTGTAAGGGGACTGTCCAAGGCAGTTGGAC  
 ATCGGTATGGCTCTCCAGTTCACACCATGGTACAGAACATCATCTATGAGAAGCTGGACTCCTCAGTGCC  
 AAGACCGTCATGTGTACCTGCCAAATACAGCCCCTTGAGTGTGTTTGACCATTGAGCCCGATGGCTCAATT  
 GCCTATAAAGAGTACGAAGATATGATAGCTACAAAGTGCACCTGTCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237748 representing NM\_001288826  
 Red=Cloning site Green=Tags(s)

MKKLYKTYATKEGIPKSNRSHLYNTVRLFTPCTRHKQAPGDQVTGILPSVELLFNLDRIITVEHLLKSVL  
 LYNINNSVSFSSAVKVCVNLMIKEPKSSSRTLGRAPYSFTFNSQFEFGKHKHWIQIDVTSLLQPLVASNK  
 RSIHMSINFCTCMKDQLEHPSAQNFLFMNTLVSPSLILYLNDTSAQAYHSWYSLHYKRRPSQGPQERSLS  
 AYPVGEAAEDGRSSHHRHRRGQETVSSSELKKPLGPASFNLSYFRQFLLPQNECELHDFRLSFSQLKWD  
 NWIVAPHRYNPRYCKGDCPRAVGHRYGSPVHTMVQNIIEYKLDSSVPRPSCVPAKYSPLSVLTIEPDGSI  
 AYKEYEDMIATKCTCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

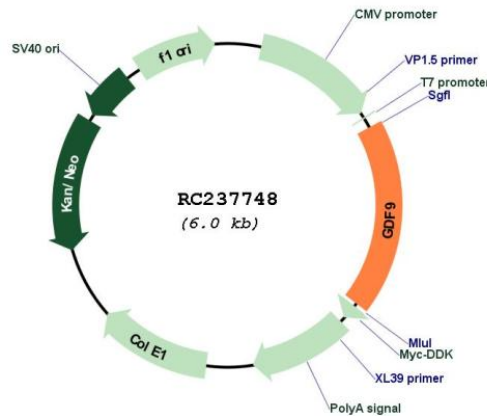
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288826

<b>ORF Size:</b>	1098 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_001288826.2</a> , <a href="#">NP_001275755.1</a>
<b>RefSeq Size:</b>	1808 bp
<b>RefSeq ORF:</b>	1101 bp
<b>Locus ID:</b>	2661
<b>Cytogenetics:</b>	5q31.1
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell - Pluripotency, Stem cell relevant signaling - TGFb/BMP signaling pathway, Transmembrane
<b>MW:</b>	42.3 kDa
<b>Gene Summary:</b>	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 ovarian function. Reduced expression of this gene may be associated with polycystic ovary syndrome and mutations in this gene may be more common in mothers of dizygotic twins. [provided by RefSeq, Jul 2016]