

Product datasheet for **RG217711**

GDF 9 (GDF9) (NM_005260) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDF 9 (GDF9) (NM_005260) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDF 9
Synonyms:	POF14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG217711 representing NM_005260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACGTCCCAACAAATTCCTCCTTTGGTTTTGCTGCTTTGCCTGGCTGTGTTTTCTATTAGCCTTG
 GTTCTCAGGCTTCTGGGGGAGAAGCTCAGATTGCTGCTAGTGCTGAGTTGGAATCTGGGGCTATGCCTTG
 GTCCTTGCTGCAGCATATAGATGAGAGAGACAGAGCTGGCCTCCTTCCCGCGCTTTTCAAAGTTCTATCT
 GTTGGGCGAGGTGGGTCACCTAGGCTGCAGCCAGACTCCAGAGCTTGCCTACTACATGAAGAAGCTCTATA
 AGACATATGCTACCAAGGAAGGGATTCTAAATCCAATAGAAGTCACCTCTACAACACTGTTCCGGCTCTT
 CACCCCTGTACCCGGCACAAGCAGGCTCCTGGAGACCAGGTAACAGGAATCCTTCCATCAGTGGAACTG
 CTATTTAACTGGATCGCATTACTACTGTTGAACACTTACTCAAGTCAGTCTTGTGTACAATATCAACA
 ACTCAGTTTCTTTTCTCTGCTGTCAAATGTGTGTGCAATCTAATGATAAAGGAGCCAAAGTCTTCTAG
 CAGGACTCTCGCAGAGCTCCATACTCATTACCTTTAACTCACAGTTTGAATTTGGAAAGAACACAAA
 TGATTACAGATTGATGTGACCAGCTCCTTCAACCTTTAGTGGCCTCCAACAAGAGAAGTATTACATGT
 CTATAAATTTTACTTGCATGAAAGACCAGCTGGAGCATCCTTCAGCACAGAATGGTTTGTTTAACATGAC
 TCTGGTGTCCCCCTCACTGATCTTATATTTGAATGACACAAGTGCTCAGGCTTATCACAGCTGGTATTCC
 CTTCACTATAAAAGGAGGCCCTTCCAGGGTCTGACCAGGAGAGAAGTCTGTCTGCCTATCCTGTGGGAG
 AAGAGGCTGCTGAGGATGGGAGATCTTCCCATCACCGTCAACCGCAGAGGTGAGGAACTGTCAGTTCTGA
 ATTGAAGAAGCCCTTGGGCCAGCTTCTTCAATCTGAGTGAATACTTCAGACAATTTCTTCTTCCCAA
 AATGAGTGTGAGTCCATGACTTTAGACTTAGCTTTAGTCAGTGAAGTGGGACAAGTGGATTGTGGCTC
 CGCACAGGTACAACCCCTCGATACTGTAAGGGGACTGTCCAAGGGCAGTTGGACATCGGTATGGCTCTCC
 AGTTCACACCATGGTACAGAACATCATCTATGAGAAGCTGGACTCCTCAGTGCCAAGACCGTCATGTGTA
 CCTGCCAAATACAGCCCTTGTAGTGTGTTTACCATTGAGCCCGATGGCTCAATTGCCTATAAAGAGTACG
 AAGATATGATAGCTACAAAGTGCACCTGTCGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217711 representing NM_005260
 Red=Cloning site Green=Tags(s)

MARPNKFLWFCCFAWLCFPIISLGSQASGGEAQIAASAELESGAMPWSLLQHIDERDRAGLLPALFKVLS
 VGRGGSPRLQPDSRALHYMKKLYKTYATKEGIPKSNRSHLYNTVRLFTPCTRHKQAPGDQVTGILPSVEL
 LFNLDRIITVEHLLKSVLLYNINNSVSFSSAVKVCNLMIKEPKSSRTLGRAPYSFTFNSQFEFGKHKH
 WIQIDVTSLLQPLVASNKRSIHMSINFTCMKDQLEHPSAQNGLFNMTLVSPSLILYLNDTSAQAYHSWYS
 LHYKRRPSQGPQERSLSAYPVGEEAAEDGRSSHRRHRRGQETVSSELKKPLGPASFNLSEYFRQFLLPQ
 NECELHDFRLSFSQLKWDNWIIVAPHRYNPRYCKGDCPRAVGHRYGSPVHTMVQNIIEKLDSSVPRPSCV
 PAKYSPLSVLTIEPDGSIAYKEYEDMIATKCTCR

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_005260

ORF Size: 1363 bp

OTI Disclaimer: 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_005260.2](#), [NP_005251.1](#)

RefSeq Size: 1365 bp

RefSeq ORF: 1365 bp

Locus ID: 2661

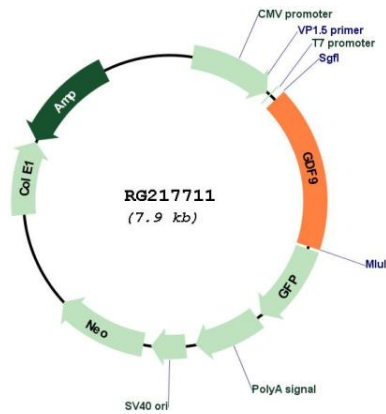
UniProt ID: [O60383](#)

Cytogenetics: 5q31.1

Protein Families: 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

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 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]

Product images:



Circular map for RG217711