

Product datasheet for **RG237746**

GDF 9 (GDF9) (NM_001288824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDF 9 (GDF9) (NM_001288824) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDF9
Synonyms:	POF14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237746 representing NM_001288824. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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CCCAGTGGCTCAATTGCCTATAAAGAGTACGAAGATATGATAGCTACAAAGTGCACCTGTCGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237746
 Blue=ORF Red=Cloning site Green=Tag(s)

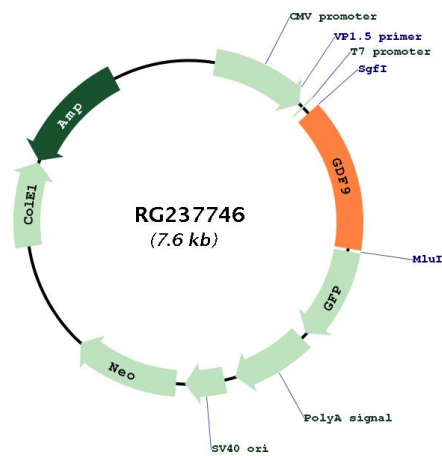
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 LLYNINNSVSFSSAVKVCNLMIKEPKSSRTLGRAPYSFTFNSQFEFGKHKHWIQIDVTSLLQPLVAS
 NKRSIHMSINFTCMKDQLEHPSAQNFLFNMTLVSPSLILYLNDSAQAYHSWYSLHYKRRPSQGPDQER
 SL SAYPVGEEAAEDGRSSHHRHRRGQETVSELKKPLGPASFNLSEYFRQFLLPQNECELHDFRLFSQ
 LKWDNWI VAPHRYNPRYCKGDCPRAVGHRYGSPVHTMVQNI IYEKLDSSVPRPSCVPAKYSPLSVLTIE
 PDGSIAYKEYEDMIATKCTCR
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 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001288824
ORF Size:	1098 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).
RefSeq:	NM_001288824.2 , NP_001275753.1
RefSeq Size:	1832 bp
RefSeq ORF:	1101 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
MW:	42.3 kDa
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]