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Product datasheet for RC237746

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:	Myc-DDK
Symbol:	GDF9
Synonyms:	POF14
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237746 representing NM_001288824 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAAGAAGCTCTATAAGACATATGCTACCAAGGAAGGGATTCCTAAATCCAATAGAAGTCACCTCTACA ACACTGTTCGGCTCTTCACCCCCTGTACCCGGCACAAGCAGGCTCCTGGAGACCAGGTAACAGGAATCCT TCCATCAGTGGAACTGCTATTTAACCTGGATCGCATTACTACCGTTGAACACTTACTCAAGTCAGTCTTG CTGTACAATATCAACAACTCAGTTTCTTTTTCCTCTGCTGTCAAATGTGTGTGCAATCTAATGATAAAGG AGCCAAAGTCTTCTAGCAGGACTCTCGGCAGAGCTCCATACTCATTTACCTTTAACTCACAGTTTGAATT TGGAAAGAAACACAAATGGATTCAGATTGATGTGACCAGCCTCCTTCAACCTTTAGTGGCCTCCAACAAG AGAAGTATTCACATGTCTATAAATTTTACTTGCATGAAAGACCAGCTGGAGCATCCTTCAGCACAGAATG GTTTGTTTAACATGACTCTGGTGTCCCCCTCACTGATCTTATATTTGAATGACACAAGTGCTCAGGCTTA TCACAGCTGGTATTCCCTTCACTATAAAAGGAGGCCTTCCCAGGGTCCTGACCAGGAGAGAAGTCTGTCT GCCTATCCTGTGGGAGAAGAGGCTGCTGAGGATGGGAGATCTTCCCATCACCGTCACCGCAGAGGTCAGG AAACTGTCAGTTCTGAATTGAAGAAGCCCTTGGGCCCAGCTTCCTTCAATCTGAGTGAATACTTCAGACA ATTTCTTCTTCCCCAAAATGAGTGTGAGCTCCATGACTTTAGACTTAGCTTTAGTCAGCTGAAGTGGGAC AACTGGATTGTGGCTCCGCACAGGTACAACCCTCGATACTGTAAAGGGGACTGTCCAAGGGCAGTTGGAC ATCGGTATGGCTCTCCAGTTCACACCATGGTACAGAACATCATCTATGAGAAGCTGGACTCCTCAGTGCC AAGACCGTCATGTGTACCTGCCAAATACAGCCCCTTGAGTGTTTTGACCATTGAGCCCGATGGCTCAATT GCCTATAAAGAGTACGAAGATATGATAGCTACAAAGTGCACCTGTCGT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

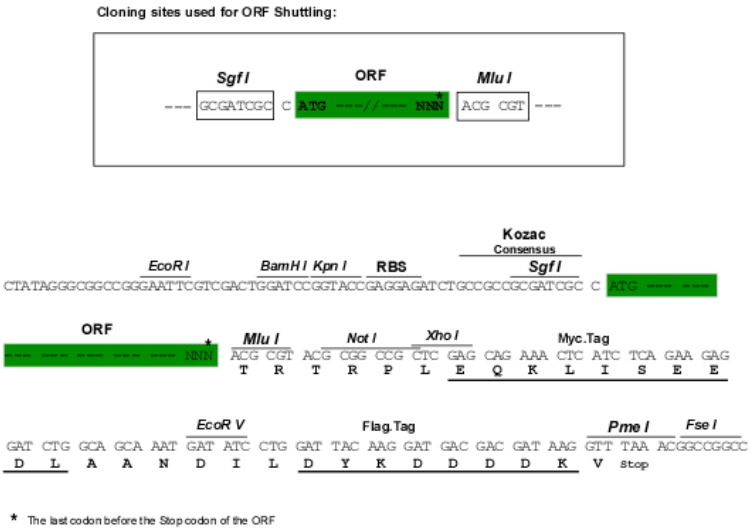
>RC237746 representing NM_001288824
Red=Cloning site Green=Tags(s)

MKKLYKTYATKEGIPKSNRSHLYNTVRLFTPCTRHKQAPGDQVTGILPSVELLFNLDRITTVEHLLKSVL
LYNINNSVSFSSAVKCVCNLMIKEPKSSSRTLGRAPYSFTFNSQFEFGKKHKWIQIDVTSLLQPLVASNK
RSIHMSINFTCMKDQLEHPSAQNGLFNMTLVSPSLILYLNDTSAQAYHSWYSLHYKRRPSQGPDQERSLS
AYPVGEEAAEDGRSSHHRHRRGQETVSSELKKPLGPASFNLSEYFRQFLLPQNECELHDFRLSFSQLKWD
NWIVAPHRYNPRYCKGDCPRAVGHRYGSPVHTMVQNIIYEKLDSSVPRPSCVPAKYSPLSVLTIEPDGSI
AYKEYEDMIATKCTCR

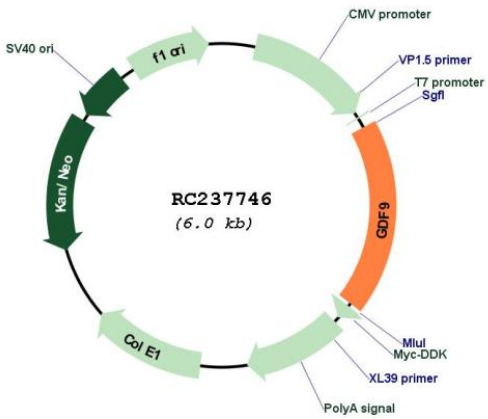
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).
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_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]