

Product datasheet for SC335640

GDF 9 (GDF9) (NM_001288824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDF 9 (GDF9) (NM_001288824) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDF 9
Synonyms:	POF14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335640 representing NM_001288824. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGAAGCTCTATAAGACATATGCTACCAAGGAAGGGATTCTAAATCCAATAGAAGTCACCTCTAC
AACACTGTTCCGGCTCTTACCCCTGTACCCGGCACAAGCAGGCTCCTGGAGACCAGGTAACAGGAATC
CTTCCATCAGTGGAACTGCTATTTAACCTGGATCGCATTACTACCGTTGAACACTTACTCAAGTCAGTC
TTGCTGTACAATATCAACAACCTCAGTTTCTTTTCTCTGCTGTCAAATGTGTGCAATCTAATGATA
AAGGAGCCAAAGTCTTCTAGCAGGACTCTCGGCAGAGCTCCATACTCATTACCTTTAACTCACAGTTT
GAATTTGGAAAGAACACAAATGGATTGAGATTGATGTGACCAGCCTCCTCAACCTTTAGTGGCCTCC
AACAAAGAGAAGTATTACATGTCTATAAATTTTACTTGCATGAAAGACCAGCTGGAGCATCTTCAGCA
CAGAATGGTTTGTAAACATGACTCTGGTGTCCCCCTCACTGATCTTATATTTGAATGACACAAGTGCT
CAGGCTTATCACAGCTGGTATCCCTTCACTATAAAAAGGAGGCCTTCCAGGGTCTGACCAGGAGAGA
AGTCTGTCTGCCTATCCTGTGGGAGAAGAGGCTGCTGAGGATGGGAGATCTTCCCATCACCGTCACCGC
AGAGGTGAGAACTGTCAGTTCTGAATTGAAGAAGCCCTTGGGCCAGCTTCTTCAATCTGAGTGAA
TACTTCAGACAATTTCTTCTTCCCAAAATGAGTGTGAGCTCCATGACTTTAGACTTAGCTTTAGTCAG
CTGAAGTGGGACAACCTGGATTGTGGCTCCGCACAGGTACAACCTCGATACTGTAAGGGGACTGTCCA
AGGGCAGTTGGACATCGGTATGGCTCTCCAGTTCACACCATGGTACAGAACATCATCTATGAGAAGCTG
GACTCCTCAGTGCCAAGACCGTCATGTGTACCTGCCAAATACAGCCCCTTGAGTGTGTTGACCATTGAG
CCCAGTGGCTCAATTGCCTATAAAGAGTACGAAGATATGATAGCTACAAAGTGCACCTGTGCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001288824



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Insert Size:	1101 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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
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:	41.8 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1. Variants 2, 3, 4, 5, and 6 encode the same isoform (2).</p>