

Product datasheet for **SC309037**

GDF1 (NM_001492) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GDF1 (NM_001492) Human Untagged Clone
Tag: Tag Free
Symbol: GDF1
Synonyms: CERS1; CHTD6; DORV; DTGA3; LAG1; LASS1; RAI; UOG1
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001492 edited
 ATGCCACCGCCGAGCAAGGTCCCTGCGGCCACCACTCCTCCTCCTGGCCCTGCTG
 CTGCCCTCGCTGCCCTGACCCGCGCCCGTGCCCCAGGCCAGCCCGCCCTGCTC
 CAGGCTCTAGGACTGCGGATGAGCCCCAGGGTGCCCCAGGCTCCGGCCGGTTCCTCCCG
 GTCATGTGGCGCCTGTTTCGACGCCGGGACCCCAAGGAGACCAGGTCTGGCTCGCGGCGG
 ACGTCCCCAGGGGTACCCTGCAACCGTGCCACGTGGAGGAGCTGGGGTTCGCGGAAAC
 ATCGTGCACACATCCCGGACCGCGGTGCGCCACCCGGGCTCGGAGCCTGCCTCGGCC
 GCGGGGATTGCCCTGAGTGGACAGTCTGTTTCGACCTGTGGCTGTGGAACCCGCTGAG
 CGCCCCAGCCGGGCCCGCTGGAGCTGCGTTTCGCGGCGGCGGCGGCGGAGCCCGGAG
 GCGGCTGGGAGCTGAGCGTGGCGCAAGCGGGCCAGGGCGGGGCGGACCCCGGGCCG
 GTGCTGCTCCGCCAGTTGGTGCCCGCCCTGGGGCCGCAAGTGCAGCGGAGCTGTGGGC
 GCCGCTTGGGCTCGCAACGCCTCATGGCCGCGCAGCCTCCGCCTGGCGCTGGCGTACGC
 CCCCAGGGCCCTGCCGCCTGCGCGCCCTGGCCGAGGCCTCGCTGCTGCTGGTGACCCTC
 GACCCGCGCCTGTGCCACCCCTGGCCCGCGCGGCGGCGGCGGAGCCGCGTGTGGGC
 GGCGGCCCGGGGGCGCTGTGCGCGCGCGGCGGCTGTACGTGAGCTTCCGCGAGGTGGGC
 TGGCACCCTGGGTATCGCGCCGCGGCTTCTGGCCAACACTGCCAGGGTCAAGTGC
 GCGTGCCTGCGGCTGTCGGGTCCGGGGGCGGCGGCGTCAACCACGCTGTGCTG
 CGCGCGCTCATGACGCGGCCCGCCCGGAGCCGCGACCTGCCCTGCTGCGTCCCGCG
 CGCCTGTGCCCATCTCCGTGCTCTTCTTACAAACAGCGACAACGTGGTGGTGGCGGAG
 TATGAGGACATGGTGGTGGACGAGTGGCGCTGCCGCTAA

Restriction Sites: Please inquire
ACCN: NM_001492
Insert Size: 2600 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001492.3 , NP_001483.2
RefSeq Size:	2565 bp
RefSeq ORF:	1119 bp
Locus ID:	2657
UniProt ID:	P27539
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Secreted Protein
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. Studies in rodents suggest that this protein is involved in the establishment of left-right asymmetry in early embryogenesis and in neural development in later embryogenesis. The encoded protein is translated from a bicistronic mRNA that also encodes ceramide synthase 1. Mutations in this gene are associated with several congenital cardiovascular malformations. [provided by RefSeq, Jul 2016]