

Product datasheet for **SC300216**

GDF6 (NM_001001557) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GDF6 (NM_001001557) Human Untagged Clone
Tag: Tag Free
Symbol: GDF6
Synonyms: BMP-13; BMP13; CDMP2; KFM; KFS; KFS1; KFSL; SGM1; SYNS4
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001001557 edited
 ATGGATACTCCCAGGGTCTGCTCTCGGCCGCTTCTCTCATCAGTTTTCTGTGGGATTTG
 CCCGGTTTCCAGCAGGCTTCCATCTCATCTCCTCGTCGTCGCCGAGCTGGGTTCCACC
 AAGGGCATGCGAAGCCGCAAGGAAGGCAAGATGCAGCGGGCGCCGCGACAGTGACGCG
 GGCCGGGAGGGCCAGGAACCACAGCCGCGGCCTCAGGACGAACCCGGGGCTCAGCAGCCC
 CGGGCGCAGGAGCCGACAGGCGGGTCCGCGCGTGGTGCACGAGTACATGCTGTCA
 ATCTACAGGACTTACTCCATCGCTGAGAAGCTGGGCATCAATGCCAGCTTTTTCCAGTCT
 TCCAAGTCGGCTAATACGATCACCAGCTTTGTAGACAGGGGACTAGACGATCTCTCGCAC
 ACTCTCTCCGGAGACAGAAGTATTTGTTGATGTGTCCATGCTCTCAGACAAAGAAGAG
 CTGGTGGGCGCGAGCTGCGGCTTTTCGCCAGGCGCCCTCAGCGCCCTGGGGGCCACCA
 GCCGGGCCGCTCCACGTGCAGCTTTCCTTGCCTTTCGCCCTACTGCTGGACGCGCGG
 ACCCTGGACCCGACAGGGGCGCCGCCGGCCGGCTGGGAAGTCTTCGACGTGTGCCAGGGC
 CTGCGCCACCAGCCCTGGAAGCAGCTGTGCTTGGAGCTGCGGGCCGATGGGGCGAGCTG
 GACGCCGGGAGGCCGAGGCGCGCGCGGGGACCCAGCAACCGCCGCCCCCGGACCTG
 CGGAGTCTGGGCTTCGGCCGGAGGGTGCAGGCTCCCCAGGAGCGGGCCCTGCTGGTGGTA
 TTCACCAGATCCCAGCGCAAGAACCTGTTGCGAGAGATGCGCGAGCAGCTGGGCTCGGCC
 GAGGCTGCGGGCCCGGGCGCGGGCGCGAGGGGTGCGGGCCGCGCCGCGCGCCGCGCCCG
 GATGCCAGGCCTTGGCTGCCCTCGCCCGCCCGGGCGGGCGCGCACGGCCTTCGCCAGT
 CGCCATGGCAAGCGGCACGGCAAGAAGTCCAGGCTACGCTGCAGCAAGAAGCCCTGCAC
 GTGAACCTCAAGGAGCTGGGCTGGGACGACTGGATTATCGCGCCCTGGAGTACGAGGCC
 TATCACTGCGAGGGTGTATGCGACTTCCCGCTGCGCTCGCACCTGGAGCCACCAACCAC
 GCCATCATCCAGACGCTGATGAACTCCATGGACCCCGGCTCCACCCCGCCAGCTGCTGC
 GTGCCACCAAATTGACTCCCATCAGCATTCTATACATCGACGCGGGCAATAATGTGGTC
 TACAAGCAGTACGAGGACATGGTGGTGGAGTCGTGCGGCTGCAGGTAGCGGTGCCTTTCC
 CGCCGCTTGGCCGGAACCAAGGTGGGCAAGGTCCGCCTTGCAGGGGAGGCCTGGCTG
 CAGAGAGGCGGAGGAGGAAGCT



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001001557 unedited GGGCGATTGTATACGACTCCTATAGGGCGGCGCGGAATTCGCCCTTATGGATACTCCCA GGGTCCTGCTCTCGGCCGTCTTCTCATCAGTTTTCTGTGGGATTTGCCCGTTTCCAGC AGGCTTCCATCTCATCTCTCGTCGTCCGCCGAGCTGGGTTCCACCAAGGGCATGCGAA GCCGCAAGGAAGGCAAGATGCAGCGGGCGCCGCGACAGTGACGCGGGCCGGGAGGGCC AGGAACCACAGCCGCGGCTCAGGACGAACCCCGGGCTCAGCAGCCCCGGGCGCAGGAGC CGCCAGGCAGGGTCCGCGCGTGGTGCCCCACGAGTACATGCTGTCAATCTACAGGACTT ACTCCATCGTGTAGAAGCTGGGCATCAATGCCAGCTTTTTCCAGTCTTCCAAGTCGGCTA ATACGATCACCAGCTTTGTAGACAGGGACTAGACGATCTCTCGCACACTCTCTCCGGA GACAGAAGTATTTGTTTGTGTCCATGCTCTCAGACAAAGAAGAGCTGGTGGGCGCGG AGCTGCGGCTCTTTCGCCAGGCGCCCTCAGCGCCCTGGGGGCCACCAGCCGGGCCCTCC ACGTGCAGCTCTTCCCTTGCTTTCGCCCTACTGCTGGACGCGCGGACCCTGGACCCGC AGGGGGCGCCGCCGGCTGGGAAGTCTTCGACGTGTGGCAGGGCCTGCGCCACCAGC CCTGGAAGCAGCTGTGCTTGGAGCTGCGGGCCGATGGGGCGAGCTGGACCCGGGGAGG CCGAGGCGCGCGCGGGGACCCAGCAACCGCCGCCCGGACCTGCGGAGTCTGGGCT TCGGCCGAGGGTGC GGCCCTCCCAAGGAGCGGGCCCTGCTGGTGTATTACCAGATCCC AGCGCAAGACCTTGTTCGAGAGAATGCCGGAAGCAAGGCTG
Restriction Sites:	Please inquire
ACCN:	NM_001001557
Insert Size:	1500 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001001557.1 , NP_001001557.1
RefSeq Size:	3716 bp
RefSeq ORF:	1368 bp
Locus ID:	392255
UniProt ID:	Q6KF10
Cytogenetics:	8q22.1
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	TGF-beta signaling pathway
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 is required for normal formation of some bones and joints in the limbs, skull, and axial skeleton. Mutations in this gene are associated with Klippel-Feil syndrome, microphthalmia, and Leber congenital amaurosis. [provided by RefSeq, Sep 2016]</p>