

Product datasheet for **RC211366**

GDF6 (NM_001001557) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GDF6 (NM_001001557) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GDF6 |
| Synonyms: | BMP-13; BMP13; CDMP2; KFM; KFS; KFS1; KFSL; SGM1; SYNS4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC211366 representing NM_001001557
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATACTCCAGGGTCTGCTCTCGGCCGTCTTCTCATCAGTTTTCTGTGGATTGCCCCGTTTCC
 AGCAGGCTTCCATCTCATCTCCTCGTCGTCGCCCGAGCTGGGTTCCACCAAGGGCATGCGAAGCCGCAA
 GGAAGGCAAGATGCAGCGGGCGCCGCGCACAGTGACGCGGGCCGGGAGGGCCAGGAACACAGCCGCGG
 CCTCAGGACGAACCCCGGGCTCAGCAGCCCGGGCGCAGGAGCCGCCAGGCAGGGGTCCGCGCGTGGTGC
 CCCACGAGTACATGCTGTCAATCTACAGGACTTACTCCATCGCTGAGAAGCTGGGCATCAATGCCAGCTT
 TTTCCAGTCTTCCAAGTCGGTAATACGATCACCAGCTTTGTAGACAGGGGACTAGACGATCTCTCGCAC
 ACTCTCTCCGGAGACAGAAGTATTTGTTTGTGTGTCCATGCTCTCAGACAAAGAAGAGCTGGTGGGCG
 CGGAGCTGCGGCTTTTCGCCAGGCGCCCTCAGCGCCCTGGGGGCCACCAGCCGGGCCGCTCCACGTGCA
 GCTCTTCCCTTGCTTTTCGCCCTACTGCTGGACGCGCGGACCCTGGACCCGCAGGGGGCCGCCCGGCC
 GGCTGGGAAGTCTTCAGGTGTGGCAGGGCCTGCCACCAGCCCTGGAAGCAGCTGTGCTTGGAGCTGC
 GGGCCGCATGGGGCGAGCTGGACGCCGGGGAGGCCGAGGCGCGCGCGGGGACCCAGCAACCGCCGCC
 CCCGGACTGCGGAGTCTGGGCTTCGGCCGGAGGGTGC GGCCCTCCCAGGAGCGGGCCCTGCTGGTGGTA
 TTCACCAGATCCCAGCGCAAGAACCTGTTTCGACAGATGCGCGAGCAGCTGGGCTCGGCCGAGGCTGCGG
 GCCCGGGCGCGGGCGCCGAGGGTCTGTGGCCGCCCGCTCGGGCGCCCGGATGCCAGGCCTTGGCTGCC
 CTCGCCGGCCCGCGCGCGCGCACGGCCTTCGCCAGTCGCCATGGCAAGCGGCACGGCAAGAAGTCC
 AGGCTACGCTGCAGCAAGAAGCCCTGCACGTGAACCTCAAGGAGCTGGGCTGGGACGACTGGATTATCG
 CGCCCCGGAGTACGAGGCTATCACTGCGAGGGTGTATGCGACTTCCCGCTGCGCTCGCACCTGGAGCC
 CACCAACCACGCCATCATCCAGACGCTGATGAACCTCCATGGACCCCGGCTCCACCCCGCCAGCTGCTGC
 GTGCCACCAAATTGACTCCCATCAGCATTCTATACATCGACGCGGCAATAATGTGGTCTACAAGCAGT
 ACGAGGACATGGTGGTGGAGTCGTGCGGCTGCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211366 representing NM_001001557
 Red=Cloning site Green=Tags(s)

MDTPRVLLSAVFLISFLWDLPGFQQASISSSSSAELGSTKGMRSRKEGKMQRAPRDS DAGREGQEPQPR
 PQDEPRAQQPRAQEPPGRGPRVVPHEYMLSIYRTYSIAEKLGINASFFQSSKSANTITSFVDRGLDDLSH
 TPLRRQKYLFDVSMLSDKEELVGAELRLFRQAPSAPWGPPAGPLHVQLFPCLSPLLL DARTLDPQGAPPA
 GWEVFDVWQGLRHQPWKQLCLELRAAWGELDAGEAEARARGPQQPPPPDLRSLGFRRVRPPQERALLVV
 FTRSQRKNLFAEMREQLGSAEAGPGAGAEWSWPPPSGAPDARWLPSPGRRRRRTAFASRHGKRHGKKS
 RLRC SKKPLHVNFKELGWDDWIIAPLEYEAYHCEGVCDFPLRSHLEPTNHAI IQTLMNSMDPGSTPPSCC
 VPTKLTPIISILYIDAGNNVVYKQYEDMVVESCGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1819_b04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001001557

ORF Size: 1365 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: 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).

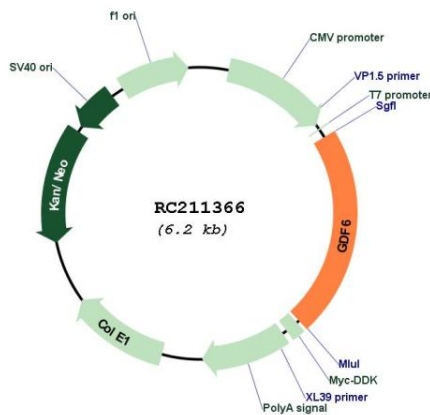
Reconstitution Method:

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_001001557.4](#)
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
MW: 50.66 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 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]

Product images:



Circular map for RC211366