

Product datasheet for **SC319494**

GDF15 (NM_004864) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GDF15 (NM_004864) Human Untagged Clone
Tag: Tag Free
Symbol: GDF15
Synonyms: GDF-15; MIC-1; MIC1; NAG-1; PDF; PLAB; PTGFB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004864.1
 CCGCAACCTGCACAGCCATGCCCGGGCAAGAAGCTCAGGACGGTGAATGGCTCTCAGATGC
 TCCTGGTGTGCTGGTCTCTCGTGCTGCCGCATGGGGCGCCCTGTCTCTGGCCGAGG
 CGAGCCGCGCAAGTTTCCCGGGACCCTCAGAGTTGCACTCCGAAGACTCCAGATTCGAG
 AGTTGCGGAAACGCTACGAGGACCTGCTAACAGGCTGCGGGCCAACCAGAGCTGGGAAG
 ATTCGAACACCGACCTCGTCCCAGCCCTGCAGTCCGGATACTCAGCCAGAAGTGCAGG
 TGGGATCCGGCGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTCCCGAGGGGCTCC
 CCGAGGCTCCCCTCCACCGGCTCTGTTCCGGCTGTCCCGACGGCGTCAAGTCGT
 GGGACGTGACACGACCGCTGCGGCGTCAGCTCAGCCTTGAAGACCCAGGCGCCCGCG
 TGCACCTGCGACTGTCCCGCCCGCTGCGAGTCGGACCAACTGCTGGCAGAATCTTCGT
 CCGCACGGCCCCAGCTGGAGTTGCACTTCCGGCCGCAAGCCGCCAGGGGGCGCCGAGAG
 CGCGTGCAGCAACCGGGACCACTGTCCGCTCGGGCCCGGGCGTTGCTGCCGTCTGCACA
 CGGTCCGCGCGTCTGTTGAAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCCACGGGAGG
 TGCAAGTGACCATGTGCATCGGGCGGTGCCGAGCCAGTTCGGGGCGGCAAAATGCACG
 CGCAGATCAAGACGAGCCTGCACCGCTGAAGCCCGACACGGTGCAGCGCCCTGCTGCG
 TGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAGACCGACACCGGGGTGTCGCTCC
 AGACCTATGATGACTTGTAGCCAAAGACTGCCACTGCATATGAGCAGTCTGGTCTTC
 CACTGTGCACCTGCGCGGAGGACGCGACCTCAGTTGTCTGCCCTGTGGAATGGGCTCAA
 GGTTCTGAGACACCCGATTCTGCCAAACAGCTGATTTATATAAGTCTGTTATTTAT
 TATTAATTTATTGGGGTACCTTCTTGGGACTCGGGGGCTGGTCTGATGGAAGTGTGTA
 TTTATTTAAAACCTCTGGTGATAAAAATAAAGCTGTCTGAACTGTTAAAAAAAAAAAAAA
 AAAAA

Restriction Sites: Please inquire
ACCN: NM_004864



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OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
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:	<p>NM_004864.1, NP_004855.1</p>
RefSeq Size:	<p>1204 bp</p>
RefSeq ORF:	<p>927 bp</p>
Locus ID:	<p>9518</p>
UniProt ID:	<p>Q99988</p>
Cytogenetics:	<p>19p13.11</p>
Domains:	<p>TGF-beta</p>
Protein Families:	<p>Druggable Genome, Secreted Protein</p>

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 preprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The protein is expressed in a broad range of cell types, acts as a pleiotropic cytokine and is involved in the stress response program of cells after cellular injury. Increased protein levels are associated with disease states such as tissue hypoxia, inflammation, acute injury and oxidative stress. [provided by RefSeq, Aug 2016]