

Product datasheet for **RG201295**

GDF15 (NM_004864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDF15 (NM_004864) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDF15
Synonyms:	GDF-15; MIC-1; MIC1; NAG-1; PDF; PLAB; PTGFB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201295 representing NM_004864 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGGAAGAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTCTCGTGCC
TGCCGCATGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTCCCGGGACCCTCAGAGTTGCA
CTCCGAAGACTCCAGATCCGAGAGTTGCGAAACGCTACGAGGACCTGCTAACCAGGCTCGGGGCAAC
CAGAGCTGGGAAGATTGCAACACCGACCTCGTCCCGCCCTGCAGTCCGATACTCACGCCAGAAGTGC
GGCTGGGATCCGGCGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTCCCGAGGGGCTCCCCGAGGC
CTCCCGCCTTACCGGGCTCTGTTCCGGCTGTCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCG
CTGCGGGTCACTCAGCTCAGCCTTGAAGACCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCCGCGCGT
CGCAGTCGGACCAACTGCTGGCAGAATCTTCGTCGCGACGGCCCGAGCTGGAGTTGCACTTGGCGCCGA
AGCCGCCAGGGGGCGCCGAGAGCGCGTGCAGCAACGGGGACCACTGTCCGCTCGGGCCCGGGCGTTGC
TGCCGTCTGCACACGGTCCGCGCGTGCCTGGAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCCACGGG
AGGTGCAAGTGACCATGTGCATCGGCGCGTCCCGAGCCAGTCCGGGCGGCAACATGCACGCGCAGAT
CAAGACGAGCCTGCACCCCTGAAGCCCGACACGGTCCAGCGCCCTGCTGCGTGCCCGCCAGCTACAAT
CCCATGGTGCTCATTCAAAGACCGACACCGGGGTGTCGCTCCAGACCTATGATGACTTGTAGCCAAAG
ACTGCCACTGCATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201295 representing NM_004864
 Red=Cloning site Green=Tags(s)

MPGQELRTVNGSQMLLVLLVLSWLPHGALSLAEASRASFPGPSELHSEDSRFRELKRKYEDLLTRLRAN
 QSWEDSNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRALFRLSPTASRSWDVTRP
 LRRQLSLARPQAPALHLRLSPPPSQSDQLLAESSARPQLEHLRPPQAARGRRRARARNGDHCPLGPGRC
 CRLHTVRASLEDLGWADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDTPAPCCVPASYN
 PMVLIQKTDGTGVSLSLQTYDDLLAKDCHCI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004864

ORF Size: 924 bp

OTI Disclaimer: 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_004864.4](#)

RefSeq Size: 1204 bp

RefSeq ORF: 927 bp

Locus ID: 9518

UniProt ID: [Q99988](#)

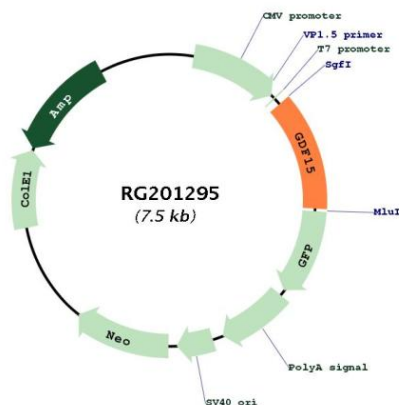
Cytogenetics: 19p13.11

Domains: TGF-beta

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. 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]

Product images:



Circular map for RG201295