

Specifications:

Gene:	hGDF5
Accession:	AAH32495.1
Insert size:	1519bp
Concentration:	10µg at 0.2µg/µL

hGDF-5 cDNA Plasmid

GDF5 growth differentiation factor 5 [*Homo sapiens* (human)]

Also known as: OS5; LAP4; BDA1C; BMP14; CDMP1; LAP-4; SYM1B; SYNS2; BMP-14; DUPANS

Summary:

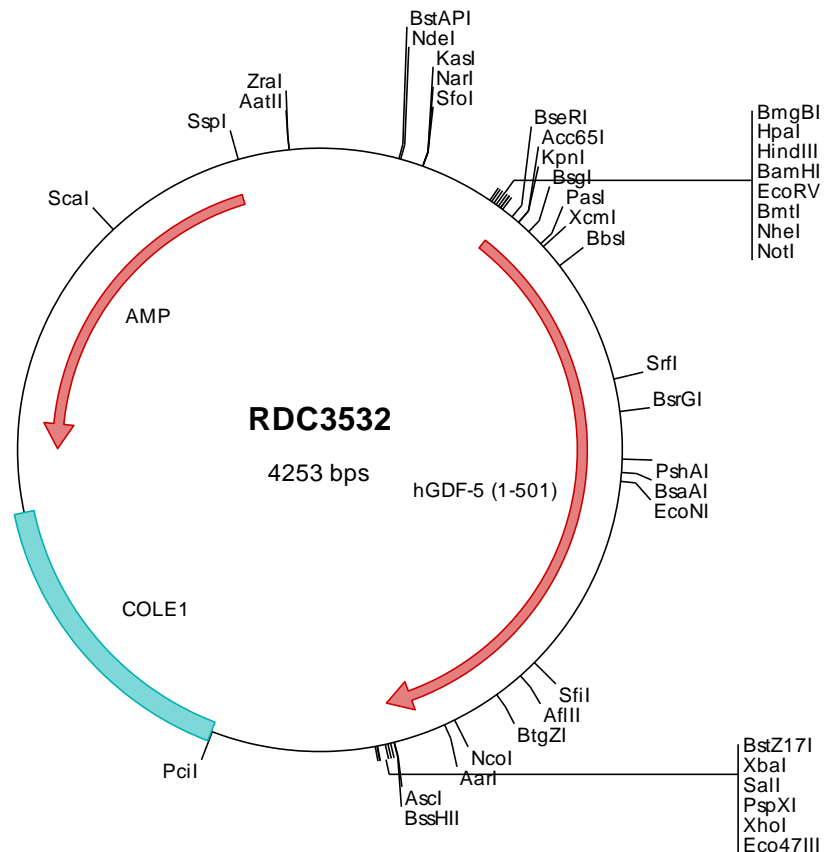
GDF5 is a secreted ligand of the transforming growth factor-beta (TGF-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. GDF5 is proteolytically processed to generate each subunit of the disulfide-linked homodimer. It regulates the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mutations in this gene are associated with acromesomelic dysplasia, brachydactyly, chondrodysplasia, multiple synostoses syndrome, proximal symphalangism, and susceptibility to osteoarthritis.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3532 Plasmid DNA Sequence

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> RDC3532 Translated Insert Sequence

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