

Specifications:

Gene:	hGDF7
Accession:	NP_878248.2
Insert size:	1366bp
Concentration:	10µg at 0.2µg/µL

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.

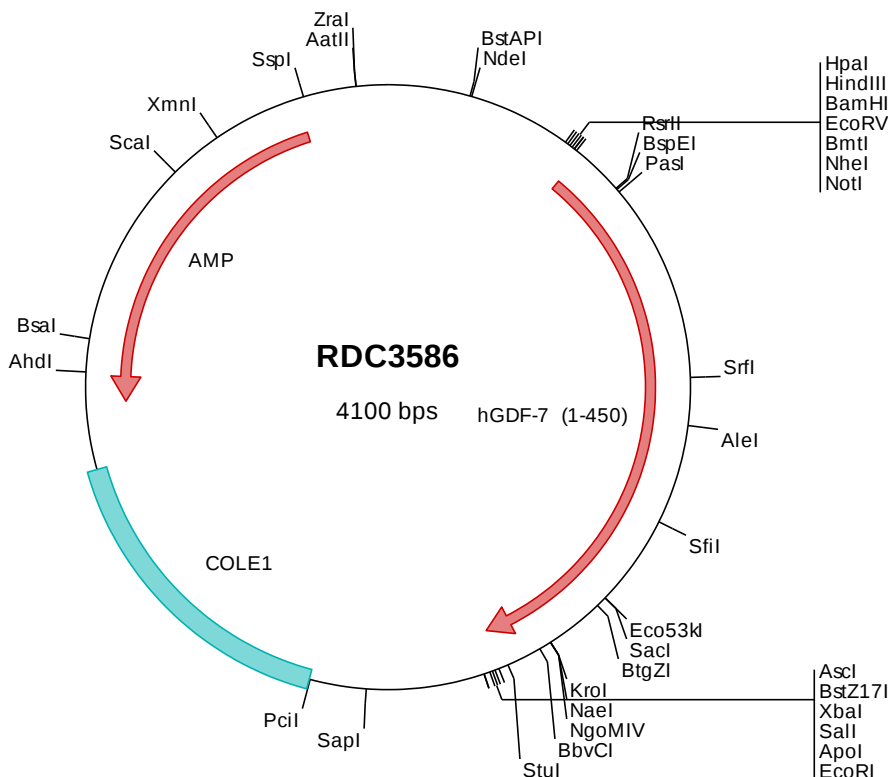
hGDF-7 cDNA Plasmid

GDF7 growth differentiation factor 7 [*Homo sapiens* (human)]

Also known as: BMP12

Summary:

GDF7 is 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. GDF7 is proteolytically processed to generate each subunit of the disulfide-linked homodimer. GDF7 may play a role in the differentiation of tendon cells and spinal cord interneurons. A mutation in GDF7 may be associated with increased risk for Barrett's esophagus and esophageal adenocarcinoma.



> RDC3586 Plasmid DNA Sequence

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301 tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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501 ccgcgcgcgc gacgggcttg aagctgcgcgc cgtgctgcga gcggcggggg ctgggcccgt ccggagccca ggggcgcgcg gcggcgcgcg cggcgcgcg
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4001 ccgcgcacat ttccccgaaa agtgcacact gacgtctaag aaaccattat tatcatgaca ttaacctata aaaataggcg tatcacgagg ccctttcgtc

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> RDC3586 Translated Insert Sequence

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201  eplvgqrwea fdvadammrrh rreprpraf clllravagp vpsplalrrl gfgwpggggs aaeravlvv ssrtqrkesl freiraqara lgaalasepl
301  pdpgtgtasp raviggrrrr rtalagtrta qsggggagrg hgrrrgrsrc rkplhvdike lgwdwiiap ldyeayhceg lcdfplrlshl eptnhaiiq
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