

Specifications:

Gene:	hBMP7
Accession:	NP_001710
Insert size:	1309bp
Concentration:	10µg at 0.2µg/µL

**hBMP-7 cDNA
Plasmid**

BMP7 bone morphogenetic protein 7 [*Homo sapiens* (human)]

Also known as: OP-1

Summary:

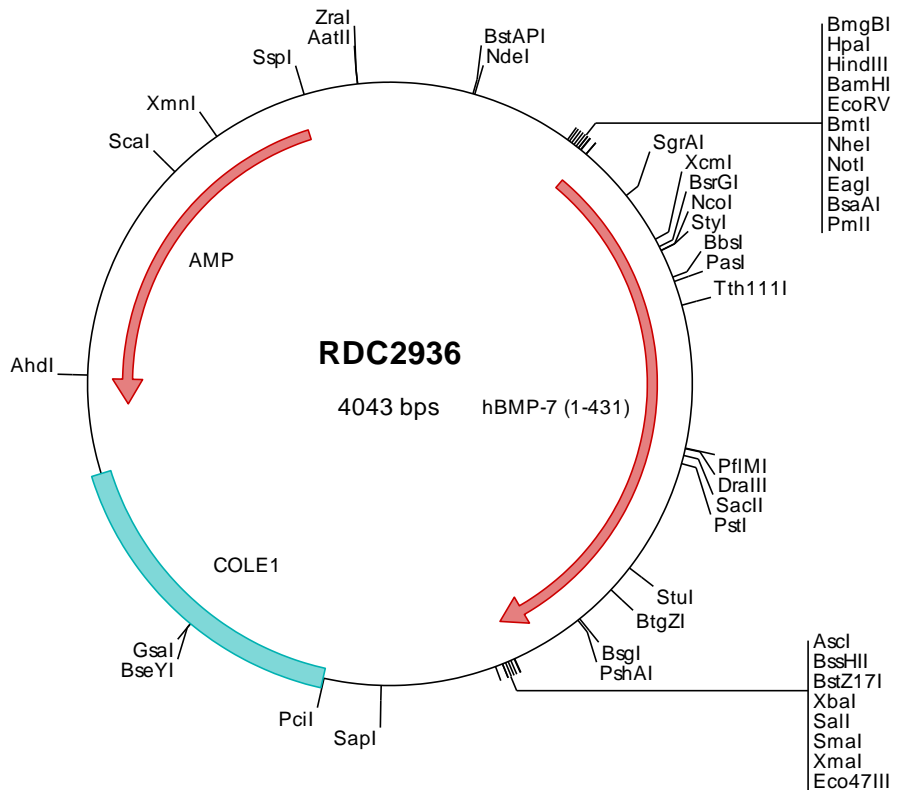
BMP-7 is a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. BMP-7 is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone, kidney and brown adipose tissue development. Additionally, BMP-7 induces ectopic bone formation and may promote fracture healing in human patients.

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

> RDC2936 Plasmid DNA Sequence

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> RDC2936 Translated Insert Sequence

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