

**Specifications:**

|                |                  |
|----------------|------------------|
| Gene:          | hBMP4            |
| Accession:     | NP_001193        |
| Insert size:   | 1239bp           |
| Concentration: | 10µg at 0.2µg/µL |

**hBMP-4 cDNA  
Plasmid**

**BMP4 bone morphogenetic protein 4 [ *Homo sapiens* (human) ]**

**Also known as:** ZYME; BMP2B; OFC11; BMP2B1; MCOPS6

**Summary:**

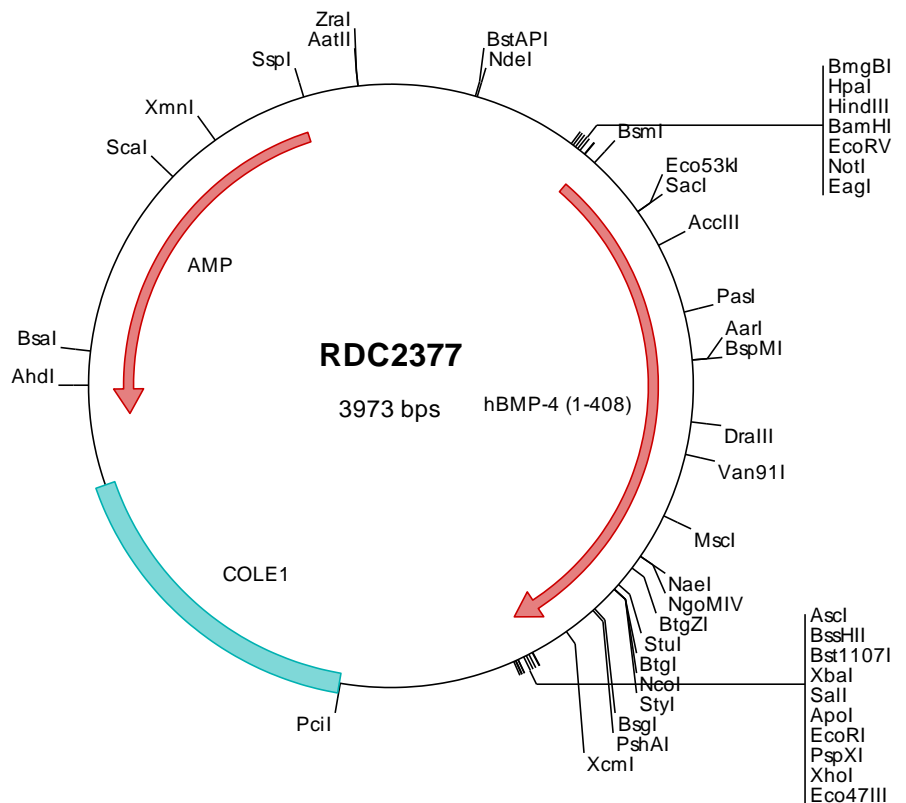
BMP4 is a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. BMP4 regulates heart development and adipogenesis. Mutations in BMP4 are associated with orofacial cleft and microphthalmia in human patients. It may also be involved in the pathology of multiple cardiovascular diseases and human cancers.

**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

> RDC2377 Plasmid DNA Sequence

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> RDC2377 Translated Insert Sequence

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