

## Product datasheet for AR51714PU-N

### OriGene Technologies, Inc.

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#### BMP14 / GDF5 (376-495, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** BMP14 / GDF5 (376-495, His-tag) human recombinant protein, 0.5 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence: IAPLEYEAF

MGSSHHHHHH SSGLVPRGSH MGSAPLANRQ GKRPSKNLKA RCSRKALHVN FKDMGWDDWI IAPLEYEAFH CEGLCEFPLR SHLEPTNHAV IQTLMNSMDP ESTPPTCCVP TRLSPISILF IDSANNVVYK

QYEDMVVESC GCR

Tag: His-tag
Predicted MW: 16 kDa
Concentration: lot specific

Purity: >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant mouse GDF5 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** <u>NP 032135</u>

**Locus ID:** 14563

UniProt ID: <u>P43027, Q8BRW9</u>

**Cytogenetics:** 2 77.26 cM

**Synonyms:** b; BMP-14; bp; brp; CDMP-; Cdmp-1

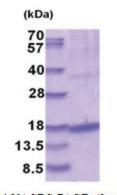




#### **Summary:**

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. This protein regulates the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mice with a mutation in this gene exhibit enhanced tooth enamel formation. [provided by RefSeq, Aug 2016]

# **Product images:**



15% SDS-PAGE (3ug)