

## Product datasheet for TP720011

## OriGene Technologies, Inc.

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## BMP2 (NM\_001200) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human bone morphogenetic protein 2 (BMP2), the domain of

Gln283-Arg396

Species: Human
Expression Host: E. coli

Expression cDNA Clone

Gln283-Arg396

or AA Sequence:

Tag: Tag Free
Predicted MW: 13 kDa
Concentration: lot specific

**Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** Lyophilized from a 0.2 um filtered solution of 10mM HAc-NH4Ac, 4% D-Mannitol, pH4.0.

**Bioactivity:** ED50 is less than 50 ng/ml as determined by the cytolysis of MC3T3-E1 cells. Specific Activity

of 2.0 x 104 IU/mg

**Endotoxin:** < 0.1 EU per µg protein as determined by LAL test

**Reconstitution Method:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not

recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 50mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-

thaw cycles.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3

weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Stability:** Stable for at least 6 months from date of receipt under proper storage and handling

conditions.

RefSeg: NP 001191

Locus ID: 650

UniProt ID: P12643
Cytogenetics: 20p12.3





Synonyms: BDA2; BMP2A; SSFSC; SSFSC1

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, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. [provided by

RefSeq, Jul 2016]

**Protein Families:** Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell

Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant

signaling - TGFb/BMP signaling pathway, Transmembrane

**Protein Pathways:** Acute myeloid leukemia, Basal cell carcinoma, Cytokine-cytokine receptor interaction,

Endocytosis, Hedgehog signaling pathway, Hematopoietic cell lineage, Melanogenesis,

Pathways in cancer, TGF-beta signaling pathway

## **Product images:**

