

## Product datasheet for **TP312307**

### **BMP6 (NM\_001718) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Homo sapiens bone morphogenetic protein 6 (BMP6), 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC212307 representing NM_001718 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MPGLGRRRAQWLCWWWGLLCSCCGPPPLRPPLPAAAAAAGGQLLGDGGSPGRTEQPPSPQSSSGFLYRR LKTQEKREMQKEILSVLGLPHRPRPLHGLQQPQPALRQEEQQQQQLPRGEPPPGRLLKSAPLFMLDLY NALSADNDEDGASEGERQQSWPHEAASSSQRRQPPPGAAHPLNRKSLAPGSGSGGASPLTSAQDSAFLN DADMVMSFVNLVEYDKEFSPQRHHKEFKFNLSQIPEGEVVTAAEFRIYKDCVMGSFKNQTFLLISYQVL QEHQHRDSDLFLDTRVWVASEEGWLEFDITATSNLWVWTPQHNMGLQLSVWTRDGVHVPRAAGLVGRD GPYDKQPFMVAFFKVSEVHVRTRRSASSRRRQQRNRSTQSQDVARVSSASDYNSELKTACRKHLYVS FQDLGWQDWIAPKGYAANYCDGECFPLNAHMNATNHAIVQTLVHLMNPEYVPKPCCAPTKLNAISVLV FDDNSNVILKKYRNMVVRACGCH  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	57 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_001709](#)

Locus ID: 654

UniProt ID: [P22004](#)

RefSeq Size: 2943

Cytogenetics: 6p24.3

RefSeq ORF: 1539

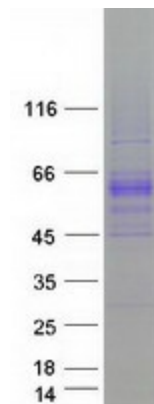
Synonyms: VGR; VGR1

**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 a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Differential expression of this gene may be associated with progression of breast and prostate cancer. Mutations in this gene may be associated with iron overload 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

**Protein Pathways:** Hedgehog signaling pathway, TGF-beta signaling pathway

### Product images:



Coomassie blue staining of purified BMP6 protein (Cat# TP312307). The protein was produced from HEK293T cells transfected with BMP6 cDNA clone (Cat# [RC212307]) using MegaTran 2.0 (Cat# [TT210002]).