

## Product datasheet for **SC304392**

### **BMP9 (GDF2) (NM\_016204) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BMP9 (GDF2) (NM\_016204) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** BMP9  
**Synonyms:** BMP-9; BMP9; HHT5  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_016204 edited  
 CTCCTTCCCAGCTCCTCCCCGTGCCCGCTAACACAGCACGGCCGCTGCAGTCTCCTCTC  
 TGGGTGATTGCGGGCCCTAAGATGTGTCTGGGGCACTGTGGGTGGCCCTGCCCTGTG  
 GTCCCTGTGGCTGGCTCCCTACAGGGGAAGCCACTGCAGAGCTGGGGACGAGGGTCTGC  
 TGGGGAAACGCCACAGCCCACTGGGGGTGCCTGGAGGTGGGCTGCCTGAGCACACCTT  
 CAACCTGAAGATGTTTCTGGAGAACGTGAAGGTGGATTTCTGCGCAGCCTTAACCTGAG  
 TGGGGTCCCTTCGAGGACAAAACAGGGTGGAGCCGCCGACGTACATGATTGACCTGTA  
 CAACAGGTACACGTCCGATAAGTCGACTACGCCAGCGTCCAACATTGTGCGGAGCTTCAG  
 CATGGAAGATGCCATCTCCATAACTGCCACAGAGGACTTCCCCTCCAGAAGCACATCTT  
 GCTCTTCAACATCTCCATTCTAGGCATGAGCAGATCACCAGAGCTGAGCTCCGACTCTA  
 TGTCTCCTGTCAAATCACGTGGACCCCTCTCATGACCTGAAAGGAAGCGTGGTCATTTA  
 TGATGTTCTGGATGGAACAGATGCCTGGGATAGTGTACAGAGACCAAGACCTTCCCTGGT  
 GTCCCAGGACATTCAGGATGAGGGCTGGGAGACCTTGAAGTGTCCAGCGCCGTGAAGCG  
 CTGGGTCCGGTCCGACTCCACCAAGAGCAAAAATAAGCTGGAAGTGACTGTGGAGAGCCA  
 CAGGAAGGGTGCAGACAGCTGGACATCAGTGTCCCCCAGGTTCCAGAAACCTGCCCTT  
 CTTTGTGTCTTCTCCAATGACCACAGCAGTGGACCAAGGAGACCAGGCTGGAGCTGAG  
 GGAGATGATCAGCCATGAACAAGAGAGCGTGCTCAAGAAGCTGTCCAAGGACGGCTCCAC  
 AGAGGCAGGTGAGAGCAGTCACGAGGAGGACACGGATGGCCACGTGGCTGCGGGGTCGAC  
 TTTAGCCAGGCGGAAAAGGAGCGCGGGGCTGGCAGCCACTGTCAAAGACCTCCCTGCG  
 GGTAAACTTCGAGGACATCGGCTGGGACAGCTGGATCATTGCACCCAAGGAGTATGAAGC  
 CTACGAGTGTAAGGGCGGCTGCTTCTTCCCTTGCTGACGATGTGACGCCGACGAAACA  
 CGCTATCGTGACAGCCCTGGTGCATCTCAAGTTCACCAAAAGGTGGCAAGGCCTGCTG  
 TGTGCCACCAAACCTGAGCCCCATCTCCGTCTTACAAGGATGACATGGGGGTGCCAC  
 CCTCAAGTACCATTACGAGGGCATGAGCGTGGCAGAGTGTGGGTGCAGGTAGTATCTGCC  
 TGCGGGGTGGGGAGGCAGGCCAAAGGGCTCCACATGAGAGGTCCTGCATGCCCTGGG  
 CACAACAAGGACTGATTCATCTGCATGCCAGCCTGGAGGAGGAAAGGGAG



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<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_016204
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This clone was fully sequenced and found to be a perfect match to NM_016204.1.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016204.1</a> , <a href="#">NP_057288.1</a>
<b>RefSeq Size:</b>	1942 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	2658
<b>UniProt ID:</b>	<a href="#">Q9UK05</a>
<b>Cytogenetics:</b>	10q11.22
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Gene Summary:</b>	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 cartilage and bone development, angiogenesis and differentiation of cholinergic central nervous system neurons. Mutations in this gene are associated with hereditary hemorrhagic telangiectasia. [provided by RefSeq, Jul 2016]