

Product datasheet for **SC302990**

BMP3 (NM_001201) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP3 (NM_001201) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP3
Synonyms:	BMP-3A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001201 edited
 TCACGCTTGGAGTGGAGACGGCGCCCGCAGCGCCCTGCGCGGGTGGAGTCCGCGCAGCTG
 CTGGGGAAGAGCCACCTGTGCTAGGCTGCGCTGGGTGAGCGCAGCAAGTGGGGTGGCCGC
 TATCTCGCTGCACCCGGCCGCTCCCGGGCTCCGTGCGCCCTCGCCCCAGCTGGTTTGA
 GTTCAACCCTCGGCTCCGCCCGGGTACCTAGCCATGGCTGGGGCAGCAGGCTGCTTTCT
 GTGGCTGGGCTGCTTCTGCGTGAGCCTGGCGCAGGGAGAGAGACCGAAGCCACCTTTCCC
 GGAGCTCCGCAAAGCTGTGCCAGGTGACCGCACGGCAGGTGGTGGCCCGACTCCGAGCT
 GCAGCCGCAAGACAAGGTCTCTGAACACATGCTGCGGCTCTATGACAGGTACAGCACGGT
 CCAGGCGGCCCGGACACCGGGCTCCCTGGAGGGAGGCTCGCAGCCCTGGCGCCCTCGGCT
 CCTGCGGAAGGCAACACGGTTCGACGCTTTGGGCGGCAGCAGCAGAACTCTTGAAAG
 AAAAGGACTGTATATCTTCAATCTGACATCGCTAACCAAGTCTGAAAACATTTTGTCTGC
 CACTGTATTTCTGTATTGGAGAGCTAGGAAACATCAGCCTGAGTTGTCCAGTGTCTGG
 AGGATGCTCCCATCATGCTCAGAGGAAACACATTCAGATTGATCTTTCTGCATGGACCCT
 CAAATTCAGCAGAAACCAAGTCAACTCCTTGGCCATCTGTGAGTGGATATGGCCAAATC
 TCATCGAGATATTATGTCTGGCTGTCTAAAGATATCACTCAATTCTTGAGGAAGGCCAA
 AGAAAAATGAAGAGTTCTCATAGATTTAACATTACGTCCAAGGGACGCCAGCTGCCAAA
 GAGGAGTTACCTTTCCAGAGCCTTATATCTTGGTATATGCCAATGATGCCGCCATTTT
 TGAGCCAGAAAGTGTGGTATCAAGCTTACAGGGACACCGGAATTTTCCACTGGAAGTGT
 TCCCAATGGGATAGCCACATCAGAGCTGCCCTTTCCATTGAGCGGAGGAAGAAGCGCTC
 TACTGGGTCTTGTGCTCTGCAGAACACGAGCTTCTGGGGCAGAATACCAGTATAA
 AAAGGATGAGGTGTGGGAGGAGAGAAAGCCTTACAAGACCCTTTCAGGCTCAGGCCCTGA
 AAAGAGTAAGAATAAAAAGAACAGAGAAAGGGCCTCATCGGAAGAGCCAGACGCTCCA
 ATTTGATGAGCAGACCTGAAAAAGGCAAGGAGAAAGCAGTGGATTGAACCTCGGAATTG
 CGCCAGGAGATACCTCAAGGTAGACTTTGCAGATATTGGCTGGAGTGAATGGATTATCTC
 CCCAAGTCTTTGATGCCTATTATTGCTCTGGAGCATGCCAGTCCCCATGCCAAAGTC
 TTTGAAGCCATCAAATCATGCTACCATCCAGAGTATAGTGAGAGCTGTGGGGTCTGTTCC
 TGGGATTCTGAGCCTTGTGTACCAGAAAAGATGCTCCTCACTCAGTATTTTATTCTT
 TGATGAAAATAAGAAATGAGTGTAAAGTATACCCTAACATGACAGTAGAGTCTTGGC
 TTGCAGATAACCTGGCAAAGAACTCATTTGAATGC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001201 unedited
 CGTTCAGCATTTGTAATACGACTCACTATAGGGNNCGCCGCGNNACTTNCGNCCCTTN
 CACCTCAGCGTTGGAGTGGAGACGGCGCCCGCAGCGCCCTGCGCGGGTGGAGTCCGCGCA
 GCTGCTGGGGAAGAGCCACCTGTGAGGCTGCGCTGGGTGAGCGCAGCAAGTGGGGCTGG
 CCGCTATCTCGCTGCACCCGGCCGCTCCCGGGCTCCGTGCGCCCTCGCCCCAGCTGGTT
 TGGAGTTCAACCCTCGGCTCCGCCCGGGTACCTAGCCATGGCTGGGCGAGCAGGCTGCTCT
 CGCCGGGAGCCGACGCGCCGCGGGTACCTAGCCATGGCTGGGCGAGCAGGCTGCTCT
 TTCTGTGGCTGGGCTGCTTCTGCGTGAGCCTGGCGCAGGGAGAGAGACCGAAGCCACCTT
 TCCCGGAGCTCCGCAAAGCTGTGCCAGGTGACCGCACGGCAGGTGGTGGCCCGGACTCCG
 AGCTGCAGCCGCAAGACAAGGTCTCTGAACACATGCTGCGGCTCTATGACAGGTACAGCA
 CGGTCCAGGCGGCCGGACACCGGGTCCCTGGAGGGAGGCTCGCAGCCCTGGCGCCCTC
 GGCTCCTGCGGAAGGCAACACGGTTCGACGCTTTGGGGCGCAGCAGCAGAACTTTG
 AAAGAAAAGGACTGTATATCTTCAATCTGACATCGCTAACCAAGTCTGAAAACATTTTGT
 CTGCCACTGTATTTCTGTATTGGAGAGCTAGGAAACATCAGCCTGAGGTGTCCAGTGT
 CTGGAAGATGCTCCATTCTGCTCAGAGGAACACATTCGATTGATCTTTCTGCATGGACC
 CTCAATTCAGCAGAACCAAGTCACTCCTTGGCCCTCTGTCATGGGTAATGCCAAATTC
 ATCAGGAATTATGTCGGCTGTG

Restriction Sites: Please inquire
ACCN: NM_001201

Insert Size:	1700 bp
OTI Disclaimer:	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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_001201.1 , NP_001192.1
RefSeq Size:	1774 bp
RefSeq ORF:	1419 bp
Locus ID:	651
UniProt ID:	P12645
Cytogenetics:	4q21.21
Protein Families:	Druggable Genome, Secreted Protein
Gene 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 suppresses osteoblast differentiation, and negatively regulates bone density, by modulating TGF-beta receptor availability to other ligands. [provided by RefSeq, Jul 2016]