

## Product datasheet for **RG212801**

### **BMP3 (NM\_001201) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BMP3 (NM_001201) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMP3
Synonyms:	BMP-3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG212801 representing NM\_001201  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGGGGCGAGCAGGCTGCTCTTTCTGTGGCTGGGCTGCTTCTGCGTGAGCCTGGCGCAGGGAGAGA  
 GACCGAAGCCACCTTTCCCGGAGCTCCGCAAAGCTGTGCCAGGTGACCGACGGCAGGTGGTGGCCGGA  
 CTCGAGCTGCAGCCGCAAGACAAGGTCTCTGAACACATGCTGCGGCTCTATGACAGGTACAGCACGGTC  
 CAGGCGGCCCGGACACCGGGCTCCCTGGAGGGAGGCTCGCAGCCCTGGCGCCCTCGGCTCTGCGGAAG  
 GCAACACGGTTCGCAGCTTTCCGGCGGCAGCAGCAGAACTCTTGAAAGAAAAGGACTGTATATCTTCAA  
 TCTGACATCGCTAACCAAGTCTGAAAACATTTGTCTGCCACACTGTATTTCTGTATTGGAGAGCTAGGA  
 AACATCAGCCTGAGTTGCCAGTGTCTGGAGGATGCTCCCATCATGCTCAGAGGAAACACATTTCAGATTG  
 ATCTTTCTGCATGGACCCTCAAATTCAGCAGAAACCAAAGTCAACTCCTTGCCATCTGTCAGTGGATAT  
 GGCCAAATCTCATCGAGATATTATGCTCCTGGCTGTCTAAAGATATCACTCAATCTTGAGGAAGGCCAAA  
 GAAAATGAAGAGTTCTCATAGGATTTAACATTACGTCCAAGGGACGCCAGCTGCCAAAGAGGAGGTTAC  
 CTTTTCCAGAGCCTTATATCTTGGTATATGCCAATGATGCCGCCATTTCTGAGCCAGAAAGTGTGGTATC  
 AAGCTTACAGGGACACCGGAATTTCCCACTGGAAGTGTCCCAATGGGATAGCCACATCAGAGCTGCC  
 CTTTCCATTGAGCGGAGGAAGAAGCGCTCTACTGGGGTCTTGCTGCCTCTGCAGAACACAGCTTCCTG  
 GGGCAGAATACAGTATAAAAAGGATGAGGTGTGGGAGGAGAGAAAGCCTTACAAGACCTTCAGGCTCA  
 GGCCCTGAAAAGAGTAAAGAATAAAAAGAAACAGAGAAAGGGCCTCATCGGAAGAGCCAGACGCTCCAA  
 TTTGATGAGCAGACCCTGAAAAGGCAAGGAGAAAGCAGTGGATTGAACCTCGGAATTGCGCCAGGAGAT  
 ACCTCAAGGTAGACTTTGCAGATATTGGCTGGAGTGAATGGATTATCTCCCAAGTCTTTGATGCCTA  
 TTATTGCTCTGGAGCATGCCAGTTCCCATGCCAAAGTCTTTGAAGCCATCAAATCATGCTACCATCCAG  
 AGTATAGTGAGAGCTGTGGGGTCTTCTGGGATTCTGAGCCTTGTGTGTACAGAAAAGATGCTCT  
 CACTCAGTATTTTATTCTTTGATGAAAATAAGAATGTAGTGCTTAAAGTATACCCTAACATGACAGTAGA  
 GTCTTGGCCTTGACAGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG212801 representing NM\_001201  
 Red=Cloning site Green=Tags(s)

MAGASRLFLWLGCFCVSLAQGERPKPPFPELRKAVPGDRTAGGGPDSELQPQDKVSEHMLRLYDRYSTV  
 QAARTPGSLEGGSQPWRPRLREGNTVRSFRAAAAETLERKGLYIFNL TSLTKSENILSATLYFCIGELG  
 NISLSCPVSGGC SHHAQRKHIQIDL SAWTLKFSRNQSQLL GHL SVDMAKSHRDIMSWLSKDITQFLRKAK  
 ENEEFLIGFNITSKGRQLPKRRLPFPEPYILVYANDAAI SEPE SVVSSLQGHRNFTGTVPKWD SHIRAA  
 LSIERRKRSTGVLLPLQNNELPGA EYQYKDEVWEERKPYKTLQAQAPEKSKNKKQRKGPHRKSQTLQ  
 FDEQTLKARRKQWIEPRNCARRYLVDFADIGWSEWII SPKSFDAYYCSGACQFPMPKSLKPSNHATIQ  
 SIVRAVG VVPGIPEPCCVPEKMSSLSILFFDENKNVVLKVYPNMTVESACR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001201

**ORF Size:** 1416 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001201.4](#)

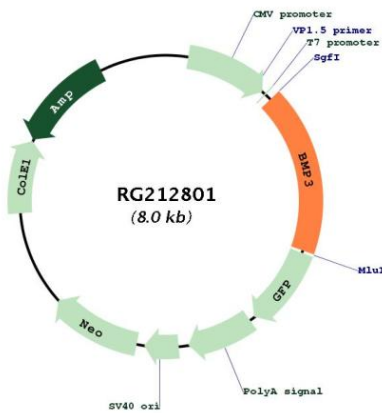
**RefSeq Size:** 1774 bp

**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]

**Product images:**



Circular map for RG212801