

## Product datasheet for **RG216035**

### **BMP1 (NM\_006128) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BMP1 (NM_006128) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMP1
Synonyms:	bone morphogenetic protein 1; FLJ44432; PCOLC; PCP; pCP-2; procollagen C-endopeptidase; procollagen C-proteinase; TLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216035 representing NM\_006128  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCGCGTGGCCCGCTGCCGTGCTGCTCGGGCTGCTGCTCCCAGCTCCCGGCCGGCCGCTGG  
 ACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCTCAACTACAAAGACCCTG  
 CAAGGCGGCTGCCTTTCTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAG  
 GCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGTGCAGTTCAGGAAACACTTCTA  
 CCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCG  
 TAGCCGGCGGGCGGACGTCGCCAGCAGAGCGTGTGTGGCCGATGGGGTCATCCCTTTGTCTATTGGG  
 GAAACTTCACTGGTAGCCAGAGGGCAGTCTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTG  
 TCACCTTCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGGGGTGTGCTC  
 CTACGTGGGTGCGCGCGGGGGCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAGTTTCGGCATT  
 GTGGTCCACGAGCTGGGCCACGTCGTGCGCTTCTGGCAGCAACACTCGGCCAGACCGGGACCGCCACG  
 TTTCCATCGTTTCGTGAGAACATCCAGCCAGGGCAGGAGTATAACTTCTGAAGATGGAGCCTCAGGAGGT  
 GGAGTCCCTGGGGGAGACCTATGACTTCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGC  
 ATCTTCTGGATACCAATTGTCCCAAGTATGAGGTGAACGGGGTAAACCTCCCATTGGCCAAAGGACAC  
 GGCTCAGCAAGGGGGACATTGCCAAGCCCGCAAGCTTACAAGTGGCCAGCCTGTGGAGAGACCCTGCA  
 AGACAGCACAGGCAACTTCTCTCCCTGAATACCCCAATGGCTACTCTGCTCACATGCACTGCGTGTGG  
 CGCATCTCTGTCACACCCGGGGAGAAGATCATCTGAACCTCACGTCCCTGGACCTGTACCGCAGCCGCC  
 TGTGCTGGTACGACTATGTGGAGGTCGAGATGGCTTCTGGAGGAAGGGCGCCCTCCGAGCCGCTTCTG  
 CGGGTCCAAACTCCCTGAGCCTATCGTCTCCACTGACAGCCGCTCTGGGTGAATTCCGCAGCAGCAGC  
 AATTGGGTTGAAAGGGCTTCTTTGCACTACGAAGCCATCTGCGGGGGTATGTGAAAAAGGACTATG  
 GCCACATTCAATCGCCAACTACCCAGACGATTACCGGCCAGCAAAGTCTGCATCTGGCGGATCCAGGT  
 GTCTGAGGGCTTCCACGTGGCCTCACATTCCAGTCTTTGAGATTGAGCGCCACGACAGCTGTGCTAC  
 GACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCTCATCGGGCGTACTGTGGCTATGAGA  
 AGCCTGATGACATCAAGAGCACGTCCAGCCGCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAA  
 AGCGGGCTTTGCCGCAACTTTTTCAAAGAGGTGGACGAGTGTCTCGGCCAACCGGGGGCTGTGAG  
 CAGCGGTGCCTCAACACCCTGGCAGCTACAAGTGCAGCTGTGACCCGGGTACGAGCTGGCCCCAGACA  
 AGCGCCGCTGTGAGGCTGCTTGTGGCGGATTCTCACCAGCTCAACGGTCCATCACCAGCCCGGGCTG  
 GCCAAGGAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCACCAGTACCGCATCTCC  
 CTGCACTTTGACTTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTG  
 GACTCACAGCTGACTCCAAGCTGCATGGCAAGTCTGTGGTTCTGAGAAGCCGAGGTATCACCTCCCA  
 GTACAACAATGCGCGTGGAGTTCAAGTCCGACAACACCGTGTCCAAAAAGGGCTTCAAGGCCACTTC  
 TTCTCAGTCTTGGAGGGGGCAGGGGACCGACACTCACATCTATCAGGCCCTGGAGTTACTGCTCTGCCCC  
 ATGCCCTGGTGCACACTGTCCCCCCCCACCCTCAGCCCTGCACGGAGACACACGCCCCACAGCACAC  
 ACATGTGCACACACATTGCCCATCGCACAAAGAACTGCAGAGGACCCCACTGGGGGCATCGAGGCTC  
 AGCCCTCAGGGCCCGGGCATCTGACTCTGGCCCCCAGGAGGGGAGCTATTTGGACTTTTGGGACACCC  
 ACCGAGGAGACCCTAAGCCAAGAAGGAGAAGAAAGAGCCTGAAGACCTTCAGTCTGACCCCTGCCACCT  
 CCGGGGCATTTGGGCACTG

**ACCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG216035 representing NM\_006128  
Red=Cloning site Green=Tags(s)

MPGVARLPLLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFQVQQ  
AVDLRRHTARKSSIKAAPGNTSTPSCQSTNGQPQRGACGRWRGRSRRAATSRPERVWPDGVIPFVIG  
GNFTGSQRAVFRQAMRHWEKHTCVTFLETRDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDFGI  
VVHELGHVVGFWEHTRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRG  
IFLDTIVPKYEVNGVKPPIGQRTRLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMCVW  
RISVTPGEKIILNFTSLDLYRSRLCWYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSS  
NWXGKGFVAVYEAICGGDVKKDYGHIQSPNYPDDYRPSKVCIWRIQVSEGFHVGLTFQSFIEIHDSCAY  
DYLEVDRGHSESSTLIGRYCGYEKPDIDKSTSSRLWLFVSDGSINKAGFAVNFKEVDECSRPNRGGCE  
QRCLNTLGSYKSCDPGYELAPDKRRC EAACGGFLTKLNGSITSPGWPKEYPPNKNCIWQLVAPTQYRIS  
LQDFDFETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVITSQYNNMRVEFKSDNTVSKKGFKAHF  
FSVLEGADRSHLSGLELLLCPHALVDTVPAPPSALHGDTHAHTHTHVHTHCPIAQETCRGPPLGASRL  
SPQPGHLTLAPQEGSYLDFWDTHRGDPKPRRRRSLKTFSLTPATFRGIWAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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.

**RefSeq:** [NM\\_006128.2](#), [NP\\_006119.1](#)

**RefSeq Size:** 2853 bp

**RefSeq ORF:** 2471 bp

**Locus ID:** 649

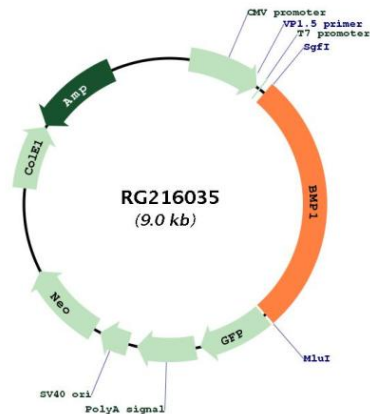
**Cytogenetics:** 8p21.3

**Domains:** CUB, Astacin, EGF\_CA, ZnMc, EGF, EGF

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** This gene encodes a protein that is capable of inducing formation of cartilage in vivo. Although other bone morphogenetic proteins are members of the TGF-beta superfamily, this gene encodes a protein that is not closely related to other known growth factors. This gene is expressed as alternatively spliced variants that share an N-terminal protease domain but differ in their C-terminal region. [provided by RefSeq, Aug 2008]

## Product images:



Circular map for RG216035