

Product datasheet for **RG216572**

BMP1 (NM_006129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP1 (NM_006129) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMP1
Synonyms:	OI13; PCOLC; PCP; PCP2; TLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216572 representing NM_006129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGCGTGGCCCGCTGCCGTGCTGCTCGGGCTGCTGCTGCCGCTCCCGGCTCCCGGCCGGCCGCTGG
 ACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCTCAACTACAAAGACCCTG
 CAAGGCGGCTGCCTTTCTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAG
 GCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCTCCATCAAAGTGCAGTTCAGGAAACACTTCTA
 CCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCG
 TAGCCGGCGGGCGGACGTCGCCGACCAGAGCGTGTGTGGCCGATGGGGTATCCCTTTGTCTATTGGG
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 TCACCTTCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACCTATCGACCTTGGGGTGTGCTC
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 TTTCCATCGTTTCGTGAGAACATCCAGCCAGGGCAGGAGTAACTTCTGAAGATGGAGCCTCAGGAGGT
 GGAGTCCCTGGGGGAGACCTATGACTTCGACAGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGC
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 CGCATCTCTGTACACCCGGGGAGAAGATCATCTGAACCTCACGTCCCTGGACCTGTACCGCAGCCGCC
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 AGCGGGCTTTGCCGCAACTTTTTCAAAGAGGTGGACGAGTGTCTCGGCCAACCGGGGGCTGTGAG
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 GCCAAGGAGTACCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCACCAGTACCGCATCTCC
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 GGCTGGGGCGCTACTGTGGCTCAGGGCCTCCTGAGGAGGTGACTCGGGGGAGATTCTGTCTGTGTGAA
 GTTCCACTCGGATGACACCATCACCAAAAAGGTTTCCACTGCGATACACCAGCACCAAGTTCAGGAC
 ACACTCCACAGCAGGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216572 representing NM_006129
 Red=Cloning site Green=Tags(s)

MPGVARLPLLLGLLLLPRPGRPLDLADYTYDLAEEDDSEPLNYKDPCKAAAF LGDIALDEEDLRAFVQQQ
 AVDLRRHTARKSSIKAAVPGNTSTPSCQSTNGQPQRGACGRWRGRSRRAATSRPERVWPDGVIPIFVIG
 GNFTGSQRAVFRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNCDFGI
 VVHELGHVVGFWEHTRPDRDRHVSIVRENIQPGQEYNFLKMEPQEVESLGETYDFDSIMHYARNTFSRG
 IFLDTIIVPKYEVNGVKPPIGQRTRLSKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAHMCVW
 RISVTPGEEKIILNFTSLDLYRSRLCWYDYVEVRDGFWRKAPLRGRFCGSKLPEPIVSTDSRLWVEFRSS
 NWWGKGF FAVYEAICGGDVKKDYGHIQSPNYPDDYRPSKVICIWRIQVSEGFHVGLTFQSFIEIHDSCAY
 DYLEVVDGHSSTLIGRYCYEKPDDIKSTSSRLWLFVSDGSINKAGFAVNFKEVDECSRPNRGGCE
 QRCLNTLGSYKSCDPGYELAPDKRCEAACGGFLTKLNGSITSPGWPKEYPPNKNCIWQLVAPTQYRIS
 LQFDFEFETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVITSQYNNMRVEFKSDNTVSKKGFKAHF
 FSDKDECKDNGGCQQDCVNTFGSYECQCRSGFVLHDNKHDCKEAGCDHKVTSTSGTITSPNWPDKYPSK
 KECTWAISSTPGHRVKLTFMEMDIESQPECAVDHLEVFDRDAKAPVLRFCGSKKPEPVLATGSRMFLR
 FYSDNSVQRKGFQASHATECGGQVRADVKTKDLYSHAQFGDNNYPGGVDCIEWIVAEEGYVELVFQTFE
 VEEETDCGYDYMELFDGYDSTAPRLGRYCGSGPPEEVYSAGDSVLVKFHSDDTITKKGFLRYTSTKFKQD
 TLHSRK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

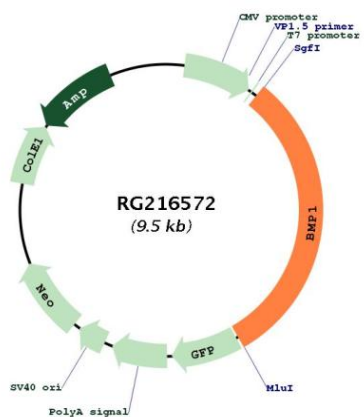


ACCN: NM_006129

ORF Size: 2958 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:	<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_006129.5
RefSeq Size:	3552 bp
RefSeq ORF:	2961 bp
Locus ID:	649
UniProt ID:	P13497
Cytogenetics:	8p21.3
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 RG216572