

Product datasheet for **RR201404**

Bmp2 (NM_017178) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bmp2 (NM_017178) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bmp2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201404 representing NM_017178
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCCGGGACCCGCTGTCTTCTAGTGTGCTGCTTCCCCAGGTCTCTGGGCGGCGCGCCGGCC
TCATTCCGGAGCTGGGCCGAAGAAGTTCGCCGGGCATCGCCCCCTTATCCCGCCTTCGGAGGACGT
CCTCAGCGAGTTTGAGTTGAGGCTGCTCAGCATGTTTGGCTGAAGCAGAGACCCACCCAGCAAGGAC
GTCGTGGTGCCCCCTATATGCTCGACCTGTACCGCCGGCACTCGGGCCAGCCAGGAGCGCTCGCCCCAG
ACCACCGCTGGAGAGGGCAGCCAGCCGCGCCAACACCGTGTCTCAGTTCATCACGAAGAAGCCATCGA
GGAACCTTCAGAAATGAGTGGGAAAACCTCCCGACGCTTCTTCTCAATTTAAGTTCTGTCCCTACTGAT
GAGTTTCTCACATCTGCAGAGCTCCAGATTTTTCGGGAACAAATGCAGGAAGCTTTGGGAAATAGTAGTT
TCCAGCACCGAATTAATATTTATGAAATTATAAAGCCTGCCACAGCCAGCTCAAATTTCTGTGACCAG
ACTATTGGACACCAGGTTAGTGACTCAGAACACAAGTCAGTGGGAGAGCTTTGATGTACCCCGGCTGTG
ATGCGATGGACAGCACAGGGACACCAACCATGGTTTTGTGGTGAAGTGGCCCACTTAGAGGAGAAGC
CAGGTGTCTCCAAGAGACATGTGAGGATTAGCAGGTCTTGCACCAAGATGAACACAGCTGGTCTCAGGT
AAGACCACTGCTAGTGACTTTTGGCCACGACGGTAAAGGACATCCACTCCACAAACGAGAAAAGCGTCAA
GCCAAACACAAACAGCGGAAGCGTCTTAAAGTCCAGCTGCAAAAAGGCACCCCTTTGTATGTGGACTTCAGT
ATGTGGGGTGGAAATGACTGGATCGTGGCCCTCCAGGCTATCATGCCTTTTACTGCCATGGGAAATGTCC
TTTTCCCTGGCTGATCACCTGAACTCCACCAACCATGCCATAGTGACAGCTCTGGTAAACTCTGTGAAT
TCCAAAATCCCTAAGGCATGCTGTGTCCCCTGAGCTTAGCGCAATCTCCATGTTGTACCTAGATGAAA
ACGAAAAGGTTGTGCTAAAAAATATCAGGACATGGTTGTGGAGGGTTGCGGGTGTCCGACGAAAAGGTT
GTGCTAAAAAATATCAGGACATGGTTGTGGAGGGTTGCGGGTGTCCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201404 representing NM_017178
 Red=Cloning site Green=Tags(s)

MVAGTRCLLVLLLPQVLLGGAAGLIPELGRKKFAGASRPLSRPSEDVLESEFELRLLSMFGLKQRPTPSKD
 VVPPYMLDLYRRHSGQPGALAPDHLRERAASRANTVLSFHHEEAIEELSEMSGKTSRRFFNLSSVPTD
 EFLTSAELQIFREQMQEALGNSSFQHRINIYEI IKPATASSKFPVTRLLDTRLVTQNTSQWESFDVTPAV
 MRWTAQGHNTNHGFVVEVAHLEEKPGVSKRHVIRSRSLHQDEHSWSQVRPLLVTFGHDGKGHPLHKREKRO
 AKHKQRKRLKSSCKRHPLYVDFSDVGWWDWIVAPPGYHAFYCHGECPPFLADHLNSTNHAIIVQTLVNSVN
 SKIPKACCVPTELSAISMLYLDENEKVVLKNYQDMVVEGCGCRTRKRLC*KTIRTWLWRVAGV

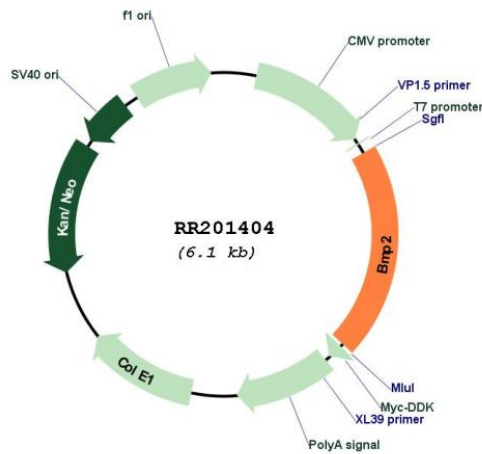
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_017178

ORF Size:	1179 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 Size:	1275 bp
RefSeq ORF:	1182 bp
Locus ID:	29373
UniProt ID:	P49001
Cytogenetics:	3q36
MW:	44.4 kDa
Gene Summary:	involved in cellular signaling during limb development; induces bone formation [RGD, Feb 2006]