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Product datasheet for SC302989

BMP1 (NM_001199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP1 (NM_001199) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP1
Synonyms:	OI13; PCOLC; PCP; PCP2; TLD
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_001199 edited
AAAGGGAGAGGGAGACGGCTGGAGCCCGAGGACGAGCGCGGAGCCGCGGACCGAGCGGGG
GGCGGGAGACAGGAAGGAGGGAGGCGAGCAGAGGGAAGGGGAAGAGGTCGGGGAGCGAGG
GCGGGAGCGGTCGCGGTCGCGATCGAGCAAGCAAGCGGGCGAGAGGACGCCCTCCCCTGG
CCTCCAGTGCGCCGCTTCCCTCGCCGCCGCCCCGCCAGCATGCCCGGCGTGGCCCGCCTG
CCGCTGCTGCTCGGGCTGCTGCTGCTCCCGCGTCCCGGCCGGCCGCTGGACTTGGCCGAC
TACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCCCTCAACTACAAAGACCCCTGC
AAGGCGGCTGCCTTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAG
GTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCA
GTTCCAGGAAACACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGA
GCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAG
CGTGTGTGGCCCGATGGGGTCATCCCCTTTGTCATTGGGGGAAACTTCACTGGTAGCCAG
AGGGCAGTCTTCCGGCAGGCCATGAGGCACTGGGAGAAGCACACCTGTGTCACCTTCCTG
GAGCGCACTGACGAGGACAGCTATATTGTGTTCACCTATCGACCTTGCGGGTGCTGCTCC
TACGTGGGTCGCCGCGGCGGGGGCCCCCAGGCCATCTCCATCGGCAAGAACTGTGACAAG
TTCGGCATTGTGGTCCACGAGCTGGGCCACGTCGTCGGCTTCTGGCACGAACACACTCGG
CCAGACCGGGACCGCCACGTTTCCATCGTTCGTGAGAACATCCAGCCAGGGCAGGAGTAT
AACTTCCTGAAGATGGAGCCTCAGGAGGTGGAGTCCCTGGGGGAGACCTATGACTTCGAC
AGCATCATGCATTACGCTCGGAACACATTCTCCAGGGGCATCTTCCTGGATACCATTGTC
CCCAAGTATGAGGTGAACGGGGTGAAACCTCCCATTGGCCAAAGGACACGGCTCAGCAAG
GGGGACATTGCCCAAGCCCGCAAGCTTTACAAGTGCCCAGCCTGTGGAGAGACCCTGCAA
GACAGCACAGGCAACTTCTCCTCCCCTGAATACCCCAATGGCTACTCTGCTCACATGCAC
TGCGTGTGGCGCATCTCTGTCACACCCGGGGAGAAGATCATCCTGAACTTCACGTCCCTG
GACCTGTACCGCAGCCGCCTGTGCTGGTACGACTATGTGGAGGTCCGAGATGGCTTCTGG
AGGAAGGCGCCCCTCCGAGGCCGCTTCTGCGGGTCCAAACTCCCTGAGCCTATCGTCTCC
ACTGACAGCCGCCTCTGGGTTGAATTCCGCAGCAGCAGCAATTGGGTTGGAAAGGGCTTC
TTTGCAGTCTACGAAGCCATCTGCGGGGGTGATGTGAAAAAGGACTATGGCCACATTCAA
TCGCCCAACTACCCAGACGATTACCGGCCCAGCAAAGTCTGCATCTGGCGGATCCAGGTG
TCTGAGGGCTTCCACGTGGGCCTCACATTCCAGTCCTTTGAGATTGAGCGCCACGACAGC
TGTGCCTACGACTATCTGGAGGTGCGCGACGGGCACAGTGAGAGCAGCACCCTCATCGGG
CGCTACTGTGGCTATGAGAAGCCTGATGACATCAAGAGCACGTCCAGCCGCCTCTGGCTC
AAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTTGCCGTCAACTTTTTCAAAGAG
GTGGACGAGTGCTCTCGGCCCAACCGCGGGGGCTGTGAGCAGCGGTGCCTCAACACCCTG
GGCAGCTACAAGTGCAGCTGTGACCCCGGGTACGAGCTGGCCCCAGACAAGCGCCGCTGT
GAGGCTGCCTGTGGCGGATTCCTCACCAAGCTCAACGGCTCCATCACCAGCCCGGGCTGG
CCCAAGGAGTACCCCCCCAACAAGAACTGCATCTGGCAGCTGGTGGCCCCCACCCAGTAC
CGCATCTCCCTGCAGTTTGACTTCTTTGAGACAGAGGGCAATGATGTGTGCAAGTACGAC
TTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAGCTGCATGGCAAGTTCTGTGGT
TCTGAGAAGCCCGAGGTCATCACCTCCCAGTACAACAACATGCGCGTGGAGTTCAAGTCC
GACAACACCGTGTCCAAAAAGGGCTTCAAGGCCCACTTCTTCTCAGAAAAGAGGCCAGCT
CTGCAGCCCCCTCGGGGACGCCCCCACCAGCTCAAATTCCGAGTGCAGAAAAGAAACCGG
ACCCCCCAGTGAGGCCTGCCAGGCCTCCCGGACCCCTTGTTACTCAGGAACCTCACCTTG
GACGGAATGGGATGGGGGCTTCGGTGCCCACCAACCCCCCACCTCCACTCTGCCATTCCG
GCCCACCTCCCTCTGGCCGGACAGAACTGGTGCTCTCTTCTCCCCACT

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001199 unedited
CGTCACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCAGAGGAAAGGAGAGGG
AGACGGCTGGAGCCCGAGGACGAGCGCGGAGCCGCGGACCGAGCGGGGGGCGGGAGACAG
GAAGGAGGGAGGCGAGCAGAGGGAAGGGGAAGAGGTCGGGGAGCGAGGGCGGGAGCGGTC
GCGGTCGCGATCGAGCAAGCAAGCGGGCGAGAGGACGCCCTCCCCTGGCCTCCAGTGCGC
CGCTTCCCTCGCCGCCGCCCCGCCAGCATGCCCGGCGTGGCCCGCCTGCCGCTGCTGCTC
GGGCTGCTGCTGCTCCCGCGTCCCGGCCGGCCGCTGGACTTGGCCGACTACACCTATGAC
CTGGCGGAGGAGGACGACTCGGAGCCCCTCAACTACAAAGACCCCTGCAAGGCGGCTGCC
TTTCTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCT
GTGGATCTCAGACGGCACACAGCTCGTAAGTCCTCCATCAAAGCTGCAGTTCCAGGAAAC
ACTTCTACCCCCAGCTGCCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGA
TGGAGAGGTAGATCCCGTAGCCGGCGGGCGGCGACGTCCCGACCAGAGCGTGTGTGGCCC
GATGGGGTCATCCCCTTTGTCATTGGGGGAAACTTCACTGGTAGCCAGAGGGCAGTCTTT
CCGCAGGGCCATGAGCACTGGGAGAAGCACACCTGTGTCACCTTCCTGGAGCGCACTGAC
GAGGACAGCTATATTGTGTTCACCTATCGACCTTGCGGGTGCTGCNTCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001199 unedited
CCCATTGGNGATGGCACTTCCAGGNCCAGNANGAGCCTGGGGNAGGGTCACAGGGATGCC
ACCCGGGATCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGATGCATGCTCGAG
CGGCCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGAGATCTAGAGTGGGGAGAAG
AGAGCACCAGTTCTGTCCGGCCAGAGGGAGGTGGGCCGGAATGGCAGAGTGGAGGTGGGG
GGTTGGTGGGCACCGAAGCCCCCATCCCATTCCGTCCAAGGTGAGGTTCCTGAGTAACAA
GGGGTCCGGGAGGCCTGGCAGGCCTCACTGGGGGGTCCGGTTTCTTTTCTGCACTCGGAA
TTTGAGCTGGTGGGGGCGTCCCCGAGGGGGCTGCAGAGCTGGCCTCTTTTCTGAGAAGAA
GTGGGCCTTGAAGCCCTTTTTGGACACGGTGTTGTCGGACTTGAACTCCACGCGCATGTT
GTTGTACTGGGAGGTGATGACCTCGGGCTTCTCAGAACCACAGAACTTGCCATGCAGCTT
GGAGTCAGCTGTGAGTCCACTGCGCACCTCCACGAAGTCGTACTTGCACACATCATTGCC
CTCTGTCTCANAGAAGTCAAACTGCAGGGAGATGCGGTACTGGGTGGGGGCCACCAGCTG
CCAGATGCAGTTCTTGTTGGGGGGGTACTCCTTGGGCCAGCCCCGGCTGGTGATGGAGCC
GTTGAGCTTGGTGAGGAATCCGCCACAGGCAGCCTCACAGCGGCGCTTGTCTGGGGCCAG
CTCGTACCCGAGTCACAGCTGCACTTGTAGCTGCCCAAGGTGTTGAAGCACCGCTGCTCA
CAGCCCCCGCGGTTGGGCCGAAAGCCCTCGTCCACCTCTTGAAAAAGTTTGACGCAAAAC
CCGGCTT

Restriction Sites: Please inquire

ACCN: NM_001199

Insert Size: 2600 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	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:	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_001199.1, NP_001190.1
RefSeq Size:	2487 bp
RefSeq ORF:	2193 bp
Locus ID:	649
UniProt ID:	P13497
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] Transcript Variant: This variant (1, also known as BMP1-1) represents the shortest transcript and encodes the shorter isoform (1).