

## Product datasheet for SC119391

### BMP1 (NM\_006129) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BMP1 (NM_006129) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP1
Synonyms:	OI13; PCOLC; PCP; PCP2; TLD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119391 sequence for NM_006129 edited (data generated by NextGen Sequencing)

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ATGCCCCGGCGTGGCCCCGCTGCCGCTGCTGCTCGGGCTGCTGCTGCCCGCTCCCGCTCCCGG
CGGCCGCTGGACTTGGCCGACTACACCTATGACCTGGCGGAGGAGGACGACTCGGAGCCC
CTCAACTACAAAGACCCCTGCAAGGCGGCTGCCTTTCTTGGGACATTGCCCTGGACGAA
GAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTGGATCTCAGACGGCACACAGCTCGT
AAGTCCTCCATCAAAGCTGCAGTTCAGGAAACTTCTACCCAGCTGCCAGAGCACC
AACGGGCAGCCTCAGAGGGGAGCCTGTGGGAGATGGAGAGGTAGATCCCGTAGCCGGCGG
GCGGGCAGCTCCCGACCAGAGCGTGTGTGGCCGATGGGGTCATCCCTTTGTCATTGGG
GGAAACTTCACTGGTAGCCAGAGGGCAGTCTCCGGCAGGCCATGAGGCACTGGGAGAAG
CACACCTGTGTCACCTTCTGGAGCGCACTGACGAGGACAGCTATATTGTGTTACATAT
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ATCCAGCCAGGGCAGGAGTATAACTTCCGAAAGTGGAGCCTCAGGAGGTGGAGTCCCTG
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GAGAGCAGCACCCCTCATCGGGCGCTACTGTGGCTATGAGAAGCCTGATGACATCAAGAGC  
 ACGTCCAGCCGCCTCTGGCTCAAGTTCGTCTCTGACGGGTCCATTAACAAAGCGGGCTTT  
 GCCGTCAACTTTTTCAAAGAGGTGGACGAGTGCTCTGGCCCAACCGCGGGGCTGTGAG  
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 GCCCCAGACAAGCGCCGCTGTGAGGCTGCTTGTGGCGGATTCTCACCAAGCTCAACGGC  
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 CTGGTGGCCCCCACCCAGTACCGCATCTCCCTGCAGTTTGACTTATTTGAGACAGAGGGC  
 AATGATGTGTGCAAGTACGACTTCGTGGAGGTGCGCAGTGGACTCACAGCTGACTCCAAG  
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 ATGCGCGTGGAGTTCAAGTCCGACAACACCGTGTCCAAAAAGGGCTTCAAGGCCACTTC  
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 GACAACAACTACCTGGGGGTGTGGACTGTGAGTGGGTCAATTGTGGCCGAGGAAGGCTAC  
 GGCGTGGAGCTCGTGTCCAGACCTTTGAGGTGGAGGAGGAGACCAGTGGCGCTATGAC  
 TACATGGAGCTCTTCGACGGCTACGACAGCACAGCCCCAGGCTGGGGCGCTACTGTGGC  
 TCAGGGCTCCTGAGGAGGTGACTCGGGGGAGATTCTGTCTGTTGAAGTTCACCTCG  
 GATGACACCATCACCAAAAAAGGTTTCCACCTGCGATACACCAGCACCAAGTTCAGGAC  
 ACACTCCACAGCAGGAAGTGA

Clone variation with respect to NM\_006129.4  
 1905 c=>a

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006129 unedited  
 TTCNCCGCCGNAGNCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAG  
 AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA  
 TTCGGCACGAGGGAGGACGAGCGCGGAGCCGCGGGCCGAGCGGGGGCGGGAGACAGGAA  
 GGAGGGAGGCGAGCAGAGGGAAGGGGAAGAGGTGCGGGAGCGAGGGCGGGAGCGGTGCGG  
 GTCGCGATCGAGCAAGCAAGCGGGCGAGAGGACGCCCTCCCCTGGCCTCCAGTGCGCCGC  
 TTCCCTCGCCGCCGCCCGCCAGCATGCCCGCGTGGCCCGCTGCCGCTGCTGCTCGGG  
 CTGCTGCTGCTCCCGGTCCCGCCGGCCGCTGGACTTGGCCGACTACACCTATGACCTG  
 GCGGAGGAGGACGACTCGGAGCCCTCAACTACAAGACCCTGCAAGGGGCTGCCTTT  
 CTTGGGGACATTGCCCTGGACGAAGAGGACCTGAGGGCCTTCCAGGTACAGCAGGCTGTG  
 GATCTCAGACGGCACACAGCTCGTAAGTCTCCATCANAGCTGCAGTTCCAGGAAACT  
 TCTACCCCGAGTGCAGAGCACCAACGGGCAGCCTCAGAGGGGAGCCTGNTGGAGATGG  
 AGAGGTAGATCCCGTAGCCGGCGGGCGGCGACGTCCNGACCAGAGCGTGTGTGGCCCGAT  
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 CAGGNCCATGAGCACTGGGAGAGCACACCTGTGTACCTTTCTGGAGCGACTGACGAGGA  
 CAGTATATTGTGTACCTTCGACTTGGCGNTGCTGCTTACGTGGGTGCGCGGGGGGGG  
 CCCAGCCATCTCATCGCAGACTGGGCC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006129

**Insert Size:**

4500 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006129.2</a> , <a href="#">NP_006120.1</a>
<b>RefSeq Size:</b>	3552 bp
<b>RefSeq ORF:</b>	2961 bp
<b>Locus ID:</b>	649
<b>UniProt ID:</b>	<a href="#">P13497</a>
<b>Cytogenetics:</b>	8p21.3
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3, also known as BMP1-3) differs in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (3) has a distinct C-terminus and is longer than isoform 1.</p>