

## Product datasheet for **SC307379**

### **BMP8A (NM\_181809) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BMP8A (NM_181809) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP8A
Synonyms:	OP-2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_181809 edited  
 ATGGCCGCGCGCCCCGGACCGCTCTGGCTTCTGGGCTGACGTTGTGCGCGCTGGGCGGG  
 GGGCGCCCCGGCTGCGACCCCCCGCGGCTGTCCCAGCGACGCTCTGGGCGCGCGAG  
 CGCCGGGACGTGCAGCGCGAGATCTGGCGGTGCTCGGGTACCCGGGCGGCCCCGGCC  
 CGCGGCCACCCGCCCTCCCGGCTGCCGCGTCCGCGCCGCTTTTCATGCTGGACCTG  
 TACCACGCCGTGGCTGGCGACGACGACGAGGACGGCGCGCCCGGAGCAGCGCTGGGC  
 CGCGCCGACCTGGTCATGAGCTTCGTCAACATGGTGGAGCGAGACCGTGCCCTGGGCC  
 CAGGAGCCCCATTGGAAGGAGTTCCGCTTTGACCTGACCCAGATCCCGGCTGGGAGGCG  
 GTCACAGCTGCGGAGTTCGGATTTACAAGGTGCCAGCATCCACCTGCTCAACAGGACC  
 CTCACAGTCAGCATGTTCCAGGTGGTCCAGGAGCAGTCCAACAGGGAGTCTGACTTGTT  
 TTTTTGGATCTTCAGACGCTCCGAGCTGGAGACGAGGGTGGCTGGTGGTGGATGCACA  
 GCAGCCAGTGACTGCTGGTTGCTGAAGCGTCACAAGGACCTGGGACTCCGCCTCTATGTG  
 GAGACTGAGGATGGGCACAGCGTGGATCCTGGCCTGGCCGGCCTGCTGGGTCAACGGCC  
 CCACGCTCCCAACAGCCTTTCTGGTCACTTTCTCAGGGCCAGTCCGAGTCCCATCCGC  
 ACCCTCGGGCAGTGAGGCCACTGAGGAGGAGGACGCCAAGAAAACCAACGAGTGCCG  
 CAGGCCAACCGACTCCCAGGGATCTTTGATGACGTCCACGGCTCCCACGGCCGGCAGGTC  
 TGCCGTGGCACGAGCTTACGTGAGTTCAGGACCTTGGCTGGCTGGACTGGGTCATC  
 GCCCCCAAGGCTACTCAGCCTATTACTGTGAGGGGAGTGTCTTCCCGCTGGACTCC  
 TGCATGAACGCCACCAACCACGCCATCCTGCAGTCCCTGGTGCACCTGATGAAGCCAAAC  
 GCAGTCCCAAGGCGTGTGTGCACCCACCAAGCTGAGCGCCACCTCTGTGCTCTACTAT  
 GACAGCAGCAACAACGTATCCTGCGCAAGCACCAGCAACATGGTGGTCAAGGCCGCGGC  
 TGCCACTGAGTCAGCCCCCAGCCCTACTGCAGCCACCCTTCTCATCTGGATCGGGCCC  
 TGCAGAGGCAGAAAACCTTAAATGCTGTACAGCTCAAGCAGGAGTGTACAGGGCCCTC  
 ACTCTCGGTGCCTACTTCTGTGACGCTTCTGGTCTTTCTCGGTACCTCTGTGCCCTC  
 CCTGGGGTTTGTGGCTGCACTCTGCCGACACTTTGGTGGCCTAAGGCACACAGCAGC  
 CTCAGAGCTGTGCTGACTGCACTGTCTGGAGTGTGAGTGCAGCACAGAAGTCTATCTTAGG  
 ACCTGTGAGACTGTGGCTGGCCCCGGATGGTCTGAGGTTGGTGACCCGAGCTTTTCTCC  
 ATTCACCAGAGGGTTTAGGTGTGAGGAGAAGGGCTCTGCCTTCCAGGTACAACACTG  
 GCCATTTCTGGCAAAATTGGACACGCTTATGTTCTCAGCACAGTGTGTTCTGGATTCT  
 TCTCATTTGGTCCAGGTGCAGTTAGCATATTAGAAAAAGAATAAGCTGGACATCCCCC  
 GGAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_181809 unedited  
 GGTTCATTATTTGTATACGACTTATATAGGCGGCGCGATTCTGGCCGCGCGCCCCGACC  
 GCTCTGGCTTCTGGGCTGACGTTGTGCGCGTGGGCGGGGGCGCCCCGGCCTGCGACC  
 CCCGCCGGCTGTCCCAGCGACGCTGGGCGCGCGAGCGCCGGGACGTGCAGCGCA  
 GATCCTGGCGGTGCTCGGGTACCCGGGCGGCCCGGCCCGCGCGCCACCCGCCCTC  
 CCGGCTGCCCGCTCCGCGCCGCTTTTCATGCTGGACCTGTACCACGCCGTGGCTGGCGA  
 CGACGACGAGGACGCGCGCCCGGAGCAGCGCTGGGCGCGCCGACCTGGTCATGAG  
 CTTCTGCAACATGGTGGAGCGAGACCGTCCCTGGGCCACCAGGAGCCCCATTGGAAGGA  
 GTTCCGCTTTGACCTGACCCAGATCCCGGCTGGGAGGCGGTACAGCTGCGGAGTTCCG  
 GATTTACAAGGTGCCAGCATCCACCTGCTCAACAGGACCCTCCACGTGAGCATGTTCCA  
 GGTGGTCCAGGAGCAGTCCAACAGGGAGTCTGACTTGTCTTTTTGGATCTTCAGACGCT  
 CCGAGCTGGAGACGAGGGCTGGTGGTGGTGGATGTCACAGCAGCCAGTACTGCTGGTT  
 GCTGAAGCGTCACAAGGACCTGGGACTCCGCCTCTATGTGGAGACTGANGATGGGCACAG  
 CGTGGATCCTGGCTGGCCGGCCTGCTGGTCAACGGGCCACCGCTCCCACAGCCTTTC  
 GTGGTCACTTTCTCAGGGCCAGTCCGAGTCCCATCCGCACCCCTCGGGGAGTGAAGCA  
 CTGAGGAGGAGGGCAGCCGAGAAAAACAACGAGCTGCCGACGGCAACCCGACTCCAGGG  
 ATCTTTG

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_181809 unedited GNANGAGCACTGGGGNAGGGTCACAGGGATGCCACCCGGGCTCTGTTCAGGAAACAGCTA TGACCCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTCGGGGGGATGTCCAGCTTATCTTTTTCTAATATGCTAACT GCCCCCTGGACCAAATGAGAAAAATCCAAAACACACTGTGCTGAAAACATAAGCGTGTC CAATTTTGCCAAAAATGGCCAGTGTTCCTGGGAAAAGGCAAAGCCCTTTTCCTCAC ACCTAAACCCTTTGGTGAATGGAAAAAGCTCGGGTCAGCCAACCTCAAACCATCCGGGG CCAGCCACAGTCTGACAGGTCTAAAATAGGACTTCTGTGCTGACTCACTCCAAACAGTG CAGTCAGCACAGGCTCTGAGGCTGCTGTGTGCCTTAGGCCACCAAAGTGTGCGGCAAAGT GACAGCCACAAACCCAGGGGAGGGGCACAGAGTCCCGAGAAAGGACAAAACCTGAC AGGAAGTAGGCCCGAGAGTGAGGGCCCTGACTCCTGCTTGAGCTGTGACAGCATT AAGGGTTTTCTGCTCTGCAGGGCCGATCCAAATGAGAAGGGTGGCTGCATTAGGGCTG GGCGGGCTGACTCAGTGGCAGCCGAGGCTTGACCACCATGTTGCGGTGCTTGCAGG ATGACCTTGTGCTGCTGCATAATAGAGCACAGAGGTGGCGCTCAACTGGTGGGTGCA CAGCACGCTTGGGGACTGCGTTTGGCTTCTCAAGTCCACAAGGACTGCAGGATGGCTTG GTTGGTGCCTNCATGCAAGAATCCAGCG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_181809
<b>Insert Size:</b>	1800 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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>	<u><a href="#">NM_181809.1</a></u> , <u><a href="#">NP_861525.1</a></u>
<b>RefSeq Size:</b>	1692 bp
<b>RefSeq ORF:</b>	1209 bp
<b>Locus ID:</b>	353500
<b>UniProt ID:</b>	<u><a href="#">Q7Z5Y6</a></u>
<b>Cytogenetics:</b>	1p34.3

**Protein Families:** Secreted Protein

**Protein Pathways:** Hedgehog signaling pathway, TGF-beta signaling pathway

**Gene Summary:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein may play a role in development of the reproductive system. This gene may have arose from a gene duplication event and its gene duplicate is also present on chromosome 1. [provided by RefSeq, Jul 2016]