

Product datasheet for **SC128142**

BMP8B (NM_001720) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP8B (NM_001720) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP8B
Synonyms:	BMP8; OP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001720, the custom clone sequence may differ by one or more nucleotides

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ATGACCGCGCTCCCCGGCCCGCTCTGGCTCCTGGGCTGGCGCTATGCGCGCTGGGCGGGGGCGGCCCG  
GCCTGCGACCCCCGCCGGCTGTCCCCAGCGACGTCTGGGCGCGCGAGCGCCGGGACGTGCAGCGCGA  
GATCCTGGCGGTGCTCGGGCTGCCTGGGCGGCCCGGCCCGCGCCACCCGCCGCTCCCGGCTGCC  
GCGTCCGCGCCGCTCTTCATGCTGGACCTGTACCACGCCATGGCCGGCGACGACGACGAGGACGGCGCG  
CCGCGGAGCGGCGCTGGGCCGCGCCGACCTGGTTCATGAGCTTCGTTAACATGGTGGAGCGAGACCGTGC  
CCTGGGCCACCAGGAGCCCCATTGGAAGGAGTTCGCTTTGACCTGACCCAGATCCCGGCTGGGGAGGCG  
GTCACAGCTGCGGAGTTCGGATTTACAAGGTGCCAGCATCCACCTGCTCAACAGGACCTCCACGTCA  
GCATGTTCCAGGTGGTCCAGGAGCAGTCCAACAGGGAGTCTGACTTGTCTTTTTGGATCTTCAGACGCT  
CCGAGCTGGAGACGAGGGCTGGCTGGTGTGGATGTCACAGCAGCCAGTACTGCTGGTTGCTGAAGCGT  
CACAAGGACCTGGGACTCCGCTCTATGTGGAGACTGAGGACGGGCACAGCGTGGATCCTGGCCTGGCCG  
GCCTGTGGGTCAACGGGCCCCACGCTCCCAACAGCCTTTCGTGGTCACTTTCTTCAGGGCCAGTCCGAG  
TCCCATCCGCACCCCTCGGGCAGTGAGGCCACTGAGGAGGAGGCAGCCGAAGAAAAGCAACGAGCTGCC  
CAGGCCAACCGACTCCAGGGATCTTTGATGACGTCCACGGCTCCACGGCCGGCAGGTCTGCCGTCCG  
ACGAGCTCTACGTCAGCTTCCAGGACCTCGGCTGGCTGGACTGGTTCATCGCTCCCAAGGCTACTCGG  
CTATTACTGTAGGGGGAGTGCTCCTTCCACTGGACTCCTGCATGAATGCCACCAACCAGCCATCCTG  
CAGTCCCTGGTGCACCTGATGATGCCAGACGACGTCCCAAGGCGTGTGTGCACCCACCAAGCTGAGCG  
CCACCTCTGTGCTCTACTATGACAGCAGCAACAATGTCATCCTGCGCAAGCACCGCAACATGGTGGTCAA  
GGCCTGCGGCTGCCACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001720 unedited GGCTCTCTTGGNNGGAGTATANAATTTGTNATACNACTCACTATAGGCGGCCGCGATTCC GAGCCCAGCCTCCTTGCCGTGCGGGCGTCCCCAGGCCCTGGGTCGGCCGCGGAGCCGATG CGCGCCCGCTGAGCGCCCCAGCTGAGCGCCCCCGGCTGCCATGACCCGCGCTCCCCGGCC CGCTCTGGCTCCTGGGCTGGCGCTATGCGCGCTGGGCGGGGCGGCCCGGCTGCGAC CCCCGCCCGGCTGTCCCCAGCGACGTCTGGGCGCGCGAGCGCCGGGACGTGCAGCGCG AGATCCTGGCGGTGCTNCGGCTGCCTGGGCGGGCCCGNCCGCGGCCACCCGNCGNCT NCCGGCTGCCCGGTNCGCGCCGCTCTTCATGCTGGACCTGTACCACGCCATGGCCCGCG ACNACCACNAGGACCGCGCGGCCGCGGAAGCGGGCCTGGGCCCGGCCCACTGGTCATGA ACTTCGCTCACTGGTGGGACGAGACCGTGCCTGGGGCCCCAGAGCCATTGGGAAGAATTT CGCTTTGACCTGGCCAAATCCCCTTGGGAGGCGGTACACGTTCCGATTCCGGATTACAA GGGGCCAAGATTCACCGTTTTAAAGGGCCCTCCAGTTAGATGTTCCAAGGGGGCCCGGAG CCATCCCAAGGGGGTGGCTGGTCCTTTTGGATTTTTAAAACCCCAACCTGGAACAA ACCTCCCTTGGCCCCGTTTTCAAACACCCCACTGTCCGTGGTTTTTTAAAAGCTCAA GACCCGGGGGACCCCCCTTTTTTGAACCTAGGTGTGGGCCCGTGGTTTTCCGTTCC GCCCCCCTTTGTTTA
Restriction Sites:	Please inquire
ACCN:	NM_001720
Insert Size:	4700 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
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_001720.3 , NP_001711.2
RefSeq Size:	3773 bp
RefSeq ORF:	1209 bp

Locus ID:	656
UniProt ID:	P34820
Cytogenetics:	1p34.2
Domains:	TGFb_propeptide, TGF-beta
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway
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 preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The encoded protein stimulates thermogenesis in brown adipose tissue. Expression of this gene may be downregulated in pancreatic cancer. 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]