

Product datasheet for **SC110838**

BMP4 (NM_130851) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BMP4 (NM_130851) Human Untagged Clone
Tag: Tag Free
Symbol: BMP4
Synonyms: BMP2B; BMP2B1; MCOPS6; OFC11; ZYME
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_130851 edited
 GAATTCGGCAGGACGACTGCTGCAGCTTCCCTGAGCCTTCCAGCAAGTTTGTTC
 AGATTGGCTGTCAAGAATCATGGACTGTTATTATATGCCTTGTTCGTCAAGACACCA
 TGATTCCTGGTAACCGAATGCTGATGGTCGTTTTATTATGCCAAGTCCTGCTAGGAGGCG
 CGAGCCATGCTAGTTTGATACCTGAGACGGGAAGAAAAAGTCGCCGAGATTCAGGGCC
 ACGCGGGAGGACGCCGCTCAGGGCAGAGCCATGAGCTCCTGCGGGACTTCGAGGGACAC
 TTCTGCAGATGTTGGGCTGCGCCGCCCGCAGCCTAGCAAGAGTGCCGTCATTCCGG
 ACTACATGCGGGATCTTACCGCTTCAGTCTGGGGAGGAGGAGGAAGAGCAGATCCACA
 GCACTGGTCTTGAGTATCCTGAGCGCCCGCCAGCCGGGCAACACCGTGAGGAGCTTCC
 ACCACGAAGAACATCTGGAGAACATCCCAGGGACCAGTAAAACTCTGCTTTTCGTTTCC
 TCTTTAACCTCAGCAGCATCCCTGAGAACGAGGTGATCTCCTCTGCAGAGCTTCGGCTCT
 TCCGGGAGCAGGTGGACCAGGGCCTGATTGGGAAAGGGGCTTCCACCGTATAAACATTT
 ATGAGGTTATGAAGCCCCAGCAGAAGTGGTGCCTGGGCACCTCATCACACGACTACTGG
 ACACGAGACTGGTCCACCACAATGTGACACGGTGGGAACTTTTGATGTGAGCCCTGCGG
 TCCTTCGCTGGACCCGGGAGAAGCAGCCAACTATGGGCTAGCCATTGAGGTGACTCACC
 TCCATCAGACTCGGACCCAGGGCCAGCATGTCAGGATTAGCCGATCGTTACCTCAAG
 GGAGTGGGAATTGGGCCAGCTCCGGCCCTCCTGGTACCTTTGGCCATGATGGCCGGG
 GCCATGCCTTGACCCGACGCCGGAGGGCCAAGCGTAGCCCTAAGCATCACTCACAGCGGG
 CCAGGAAGAAGAATAAGAACTGCCGGCGCCACTCGCTCTATGTGGACTTCAGCGATGTGG
 GCTGGAATGACTGGATTGTGGCCCAAGGCTACCAGGCTTCTACTGCCATGGGGACT
 GCCCTTTCCACTGGCTGACCACCTCAACTCAACCAACCATGCCATTGTGCAGACCTGG
 TCAATTCTGTCAATTCCAGTATCCCAAAGCCTGTTGTGTGCCACTGAACTGAGTGCCA
 TCTCCATGCTGTACCTGGATGAGTATGATAAGGTGGTACTGAAAAATTATCAGGAGATGG
 TAGTAGAGGGATGTGGGTGCCGCTGAGATCAGGCAGTCTTGAGGATAGACAGATATACA
 CACCACACACACACCACATACACCACACACACAGTTCATCCACTACCCACACAC
 TACACAGACTGCTTCTTATAGCTGGACTTTTATTTAAAAAATAAAAAAAAAAACTCGAC



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_130851 unedited CCATTCGCCCGCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCG CGAATTCGGCAGGAGGACGCACTGCTGCAGCTTCCCTGAGCCTTCCAGCACGTTTGTTT AAGATTGGCTGTCAAGAATCATGGACTGTATTATATGCCTTGTCTTCTGTCAAGACACC ATGATTCCTGGTAACCGAATGCTGATGGTCGTTTTATTATGCCAAGTCTGCTAGGAGGC GCGAGCCATGCTAGTTTGATACCTGAGACGGGGAAGAAAAAGTCGCCGAGATTCAGGGC CACGCGGAGGACGCCGCTCAGGGCAGAGCCATGAGCTCCTGCGGGACTTCGAGGCGACA CTTCTGCAGATGTTGGGCTGCGCCGCCCGCAGCCTAGCAAGAGTGCCGTCATTCCG GACTACATGCGGGATCTTACC GGCTTCAGTCTGGGGAGGAGGAGGAAGAGCAGATCCAC AGCACTGGTCTTGTAGTATCCTGAGCGCCCGCCAGCCGGGCAACACCGTGAGGAGCTTC CACCACGAAGAACATCTGGAGAACATCCCAGGGACCAAGTAAAACCTCTGCTTTTCGTTTC CTCTTTAACCTCAGCAGCATCCCTGAGCGCGAGGTGATCTCTCTGCAGAGCTTCGGCTC TTCCTGGAGCAGGTGGACCAGNGCCCTGACTGNGCAAGNGCTTCCCCGTATAACATTNA TGAGGNTATGAAGCCCCAGCAAACGTGGTGCCTGGGCACCTCATCACAGACTACTGGA CACGAGACTGGTTCACCACATGTGACACGCTGGGACACTTTTGATGTGAGCCCTGCNGTC CTTGCTGNACCTGGGAGAGCAGCCAACCTATGGCCTAGC
Restriction Sites:	NotI-NotI
ACCN:	NM_130851
Insert Size:	1600 bp
OTI Disclaimer:	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).
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_130851.1 , NP_570912.1
RefSeq Size:	1779 bp
RefSeq ORF:	1227 bp
Locus ID:	652
UniProt ID:	P12644
Cytogenetics:	14q22.2
Domains:	TGFb_propeptide, TGF-beta

Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer, TGF-beta signaling pathway
Gene Summary:	<p>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. This protein regulates heart development and adipogenesis. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple cardiovascular diseases and human cancers. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (3) uses the P2 promoter and differs in the 5' UTR compared to variant 1.</p>