

Product datasheet for **SC108985**

BMP4 (NM_001202) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP4 (NM_001202) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP4
Synonyms:	BMP2B; BMP2B1; MCOPS6; OFC11; ZYME
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001202 edited
 GAATTCGGCACCAGGCTAGGTGAGTGTGGCATCCGAGCTGAGGGACGCGAGCCTGAGACG
 CCGCTGCTGCTCCGGCTGAGTATCTAGCTTGTCTCCCGATGGGATTCCTGCAAGCTA
 TCTCGAGCCTGCAGCGCCACAGTCCCCGGCCCTCGCCAGGTTCACTGCAACCGTTCAGA
 GGTCCCCAGGAGCTGCTGCTGGCGAGCCGCTACTGCAGGGACCTATGGAGCCATCCGT
 AGTGCCATCCCGAGCAACGCACTGCTGCAGCTTCCCTGAGCCTTCCAGCAAGTTTGTTC
 AAGATTGGCTGTCAAGAATCATGGACTGTTATTATATGCTTGTTCCTGTCAAGACACC
 ATGATTCCTGGTAACCGAATGCTGATGGTCGTTTTATTATGCCAAGTCTGCTAGGAGGC
 GCGAGCCATGCTAGTTTGATACCTGAGACGGGAAGAAAAAGTCGCCGAGATTCAGGGC
 CACGCGGGAGGACGCGCTCAGGGCAGAGCCATGAGTCTGCGGGACTTCGAGGCGACA
 CTTCTGCAGATGTTGGGCTGCGCCGCCCGCAGCCTAGCAAGAGTGCCGTCATTCCG
 GACTACATGCGGGATCTTACCGGCTTCAGTCTGGGGAGGAGGAGGAAGAGCAGATCCAC
 AGCACTGGTCTTGTAGTATCCTGAGCGCCCGCCAGCCGGGCCAACACCGTGGAGCTTC
 CACCACGAAGAATCTGGAGAATCCCAGGGACCAGTAAAACTCTGCTTTTCGTTTC
 CTCTTTAACCTCAGCAGCATCCCTGAGAACGAGGTGATCTCTCTGCAGAGCTTCGGCTC
 TTCGGGAGCAGGTGGACCAGGGCCCTGATTGGGAAAGGGGCTTCCACCGTATAAACATT
 TATGAGGTTATGAAGCCCCCAGCAGAAGTGGTGCCTGGGCACCTCATCACACGACTACTG
 GACACGAGACTGGTCCACCACAATGTGACACGGTGGGAACTTTTGTGTGAGCCCTGCG
 GTCCTTCGCTGGACCCGGGAGAAGCAGCCAACTATGGGCTAGCCATTGAGGTGACTCAC
 CTCCATCAGACTCGGACCCAGGAGCCAGCATGTGAGGATTAGCCGATCGTTACCTCAA
 GGGAGTGGGAATTGGGCCAGCTCCGGCCCTCCTGGTCACTTTGGCCATGATGGCCGG
 GGCCATGCCTTGACCCGACGCGGAGGGCAAGCGTAGCCCTAAGCATCACTCACAGCGG
 GCCAGGAAGAAGAATAAGAACTGCCGGGCCACTCGCTCTATGTGGACTTCAGCGATGTG
 GGCTGGAATGACTGGATTGTGGCCCAACAGGCTACCAGGCCTTCTACTGCCATGGGGAC
 TGCCCTTTTCCACTGGCTGACCCTCAACTCAACCAACCATGCCATTGTGCAGACCCTG
 GTCAATTCTGTCAATTCCAGTATCCCCAAAGCCTGTTGTGTGCCACTGAACTGAGTGCC
 ATCTCCATGCTGTACCTGGATGAGTATGATAAGGTGGTACTGAAAAATTATCAGGAGATG
 GTAGTAGAGGGATGTGGGTGCCGCTGAGATCAGGCAGTCTTGGAGATAGACAGATATA
 ACACCACACACACACCACATACACCACACACACAGTTCCTCCACTCACCACACACA
 CTACACAGACTGCTTCTTATAGCTGGACTTTTATTTAAAAAAAAAAAAAAAAAACTCGA
 C

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001202 unedited
 TATTTTGAATACGACTCACTATAGGGCGGCNCGCAATTCGCACCAGGCTAGGTGAGTG
 TGGCATCCGAGCTGAGGGACGCGAGCCTGAGACGCCGCTGCTGCTCCGGCTGAGTATCTA
 GCTTGTCTCCCGATGGGATTCCTGCAAGCTATCTCGAGCCTGCAGCGCCACAGTCCC
 CGGCCCTCGCCAGGTTCACTGCAACCGTTCAGAGGTCCCAGGAGCTGCTGCTGGCGAG
 CCCGCTACTGCAGGGACCTATGGAGCCATTCCGTAGTGCCATCCCAGCAACGCATGCT
 GCAGCTTCCCTGAGCCTTCCAGCAAGTTTGTCAAGATTGGCTGTCAAGAATCATGGAC
 TGTATTATATGCCTTGTTCCTGTCAAGACACCATGATTCTGGTAACCGAATGCTGAT
 GGTGTTTTATTATGCCAAGTCTGCTAGGAGGCGCGAGCCATGCTAGTTTGATACCTGA
 GACGGGAAGAAAAAGTCGCCGAGATTCAGGGCCACGCGGGAGGACGCCGCTCAGGGCA
 GAGCCATGAGCTCCTGCGGGACTTCGAGGGCAGACTTCTGCAGATGTTTGGGCTGCGCCG
 CCGCCCGCAGCCTAGCAAGAGTGCCGTATTCCGGACTACATGCGGGATCTTACCGGCT
 TCAGTCTGGGGAGGAGGAGAAGAGCAGATCCACAGCACTGGTCTTGTAGTATCCTGAGCG
 CCCGGCCAGCCCGCCAACACCGTGGAGGCTTCCACCACGAAGAATCTGGAGAAT
 CCCAGGNACCAAGTAAACTCTGCTTTTCCGTTCTCTTTACCTCACAGCATCCCTGAAAC
 GAGTGATCTCTGCAAACCTGGCTCTTCCGGACAGTGGCCAGGCCCTGATTGGAAGGGC
 TCCACGTATAACATTATGAGTTGAGCCCCACAAATGTGCTGGCCCTATAACGC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001202 unedited CCAGAACTACGNCACGCAATCTAAATACAAATTCTTCTCTCTCTCTTTAAATAAAA CTNCACCTATAAAGAAGCACTCTCACTACAGACAAACAAGATAAAAACCTCTGACA GAAGAGTAAGAAGACAGAGAGAAGAGNNNATATCAGCCTATCCTCAAGGACTGCCTGA TCTCANCGGCACCCACATCCCTCTACTACCACCCCCCACAACCTCCCACCACCACCTA TCACACCCATCCAGGTCCACCGNGGACACCGCACCCANNCCACCGCCCCACAACCGCCC CCCCCCACCCGGCACCCACCCCCCCCCCCCCCCACCCACCCCCCCAACCCCCCCCCCCC CCGCGTCCCCAACCCCCCCCCCCCCCCCCCCCCACCCCCACACCCCCCCCACCAGAA CCCCCCACCAACCAACACCCCCCCCCCCCCCCACCCCCACCCCCACCCCCACCACCC CCACACCACTCCCACACCACCACCACCACACCCCCCCCTTCCACCCCAACCCACTA CCCTCCCCCCCCCCCCACCCACCCCCCCCCCCCTTAATAACCGTTCCACCCCAACACC CACCACCCCCCCCGCTCACACCAACCCCCCCACCCACCCCCCCCCCCCTTTTTCCC ACCCACACCCACCCACCACCCACCCACCCCCCCCCCCCCCCCCCCCCCCACCACCC CCCCCCCCCCTCCCCCCCCACCCCCACCACCCCCCCACAACACACACCCACCCAGCC CCTACACCCCCCCCTACACCCCCCCCCCCCCCCCCCCACCCACACCCCCACACCCCCC ACCCACCCCTACCCCCACCCACCCCGCTCCCTCCCCACCCCCCCCAATAACAC AACACACACCCACCACCCCCACCA
Restriction Sites:	NotI-NotI
ACCN:	NM_001202
Insert Size:	1730 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001202.2 , NP_001193.1
RefSeq Size:	1999 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 (1) uses the P1 promoter and encodes isoform a.</p>