

Product datasheet for **SC321699**

BMP5 (NM_021073) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP5 (NM_021073) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_021073.2
 CTCTTGAAGAGGGCTGGTATATTTGTGCCTGCTGGAGGTGGAATTAACAGTAAGAAGGAG
 AAAGGGATTGAATGGACTTACAGGAAGGATTTCAAGTAAATTCAGGGAAACACATTTACT
 TGAATAGTACAACCTAGAGTATTATTTTACACTAAGACGACACAAAAGATGTTAAAGTTA
 TCACCAAGCTGCCGGACAGATATATTTCCAACACCAAGGTGCAGATCAGCATAGATCTG
 TGATTACAGAAATCAGGATTTGTTTTGGAAAGAGCTCAAGGGTTGAGAAGAACTCAAAGC
 AAGTGAAGATTACTTTGGGAACTACAGTTTATCAGAAGATCAACTTTTGCATAATCAAAT
 ACCAAAGCCTGATTATCATAAAATTCATATAGGAATGCATAGGTATCTGATCAAATAAT
 ATTAGCCGCTCTTCTGCTACATCAATGCAGCAAAAACCTTAACAACCTGTGGATAATTGGA
 AATCTGAGTTTCAGCTTTCTTAGAAATAACTACTCTTGACATATTCAAAATATTTAAAA
 TAGGACAGGAAAATCGGTGAGGATGTTGTGCTCAGAAATGCTACTGTCATGAAAAATAGG
 TAAATTTGTTTTTTCAGCTACTGGGAACTGTACCTCCTAGAACCTTAGGTTTTTTTTTT
 TTTTAAGAGGACAAGAAGGACTAAAAATCAACTTTTGTCTTTGGACAAAATGCATCT
 GACTGTATTTTTACTTAAGGGTATTGTGGGTTTCTCTGGAGCTGCTGGGTTCTAGTGGG
 TTATGCAAAAGGAGGTTTGGGAGACAATCATGTTCACTCCAGTTTTATTTATAGAAGACT
 ACGGAACCACGAAAGACGGGAAATACAAAGGGAAATTCTCTATCTTGGGTTTGCCTCA
 CAGACCCAGACCATTTTACCTGGAAAACAAGCGTCTCTGCACCTCTCTTTATGCTGGA
 TCTCTACAATGCCATGACCAATGAAGAAAATCCTGAAGAGTCCGAGTACTCAGTAAGGGC
 ATCCTTGGCAGAAGAGACCAGAGGGCAAGAAAGGGATACCCAGCCTCTCCCAATGGGTA
 TCCTCGTCGCATACAGTTATCTCGGACGACTCCTCTGACCACCCAGAGTCCCTCTAGC
 CAGCTCCATGATACCACTTTCTGAATGATGCTGACATGGTCATGAGCTTTGTCAACTT
 AGTTGAAAGAGACAAGGATTTTTCTCACCAGCGAAGGCATTACAAGAATTTTCGATTTGA
 TCTTACCCAAATTCCTCATGGAGAGGCAGTGACAGCAGCTGAATTCGGATATACAAGGA
 CCGGAGCAACAACCGATTTGAAAATGAAACAATTAAGATTAGCATATATCAAATCATCAA
 GGAATACACAAATAGGGATGCAGATCTGTTCTTGTAGACACAAGAAAGGCCCAAGCTTT
 AGATGTGGGTTGGCTTGCTTTGATATCACTGTGACCAGCAATCATTGGGTGATTAATCC
 CCAGAATAATTTGGGCTTACAGCTCTGTGCAGAAAACAGGGGATGGACGCAGTATCAACGT
 AAAATCTGCTGGTCTTGTGGGAAGACAGGGACCTCAGTCAAAAACAACCATTATGGTGGC
 CTCTTCAAGCGAGTGAGGTACTTCTTCGATCCGTGAGAGCAGCCAACAACGAAAAAA
 TCAAAACCGCAATAAATCCAGCTCTCATCAGGACTCCTCCAGAATGTCCAGTGTGGAGA
 TTATAACAACAAGTGAGCAAAAACAAGCCTGTAAGAAGCACGAACCTATGTGAGCTCCG
 GGATCTGGGATGGCAGGACTGGATTATAGCACCAAGGATACGCTGCATTTTATTGTGA
 TGGAGAATGTTCTTTTCACTTAACGCCATATGAATGCCACCAACCACGCTATAGTTCA
 GACTCTGGTTCATCTGATGTTTCTGACCACGTACCAAAGCCTTGTGTGCTCCAACCAA
 ATTAATGCCATCTCTGTCTGTACTTTGATGACAGCTCCAATGTCATTTTGAAAAATA
 TAGAAATATGGTAGTACGCTCATGTGGCTGCCACTAATATTAATAATATTGATAATAAC
 AAAAAGATCTGTATTAAGGTTTATGGCTGCAATAAAAAGCATACTTTCAGACAAACGGGG
 AATTTCTAAAAA

Restriction Sites: Please inquire

ACCN: NM_021073

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_021073.2 , NP_066551.1
RefSeq Size:	2207 bp
RefSeq ORF:	1365 bp
Locus ID:	653
UniProt ID:	P22003
Cytogenetics:	6p12.1
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:	<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, which plays a role in bone and cartilage development. Polymorphisms in this gene may be associated with osteoarthritis in human patients. This gene is differentially regulated in multiple human cancers. This gene encodes distinct protein isoforms that may be similarly proteolytically processed. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>