

Product datasheet for **SC304116**

BMP10 (NM_014482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP10 (NM_014482) Human Untagged Clone
Tag:	Tag Free
Symbol:	BMP10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_014482 edited ATGGGCTCTCTGGTCCTGACACTGTGCGCTCTTTCTGCCTGGCAGCTTACTTGGTTTCT GGCAGCCCATCATGAACCTAGAGCAGTCTCCTCTGGAAGAAGATATGTCCCTCTTGGT GATGTTTTCTCAGAGCAAGACGGTGTGCGACTTTAACACACTGCTCCAGAGCATGAAGGAT GAGTTTCTTAAGACACTAAACCTCTCTGACATCCCCACGCAGGATTCAGCCAAGGTGGAC CCACCAGAGTACATGTTGGAACCTACAACAAATTTGCAACAGATCGGACCTCCATGCC TCTGCCAATCATTAGGAGTTTCAAGAATGAAGATCTGTTTTCCAGCCGGTCAGTTTT AATGGGCTCCGAAAATACCCCTCTCTCAATGTGTCCATTCTCACCATGAAGAGGTC ATCATGACTGAACTTAGGCTATACACACTGGTGCAAAGGGATCGTATGATATACGATGGA GTAGACCGGAAAATTACCATTTTTGAAGTGCTGGAGAGCAAAGGGGATAATGAGGGAGAA AGAAACATGCTGGTCTTGGTGTCTGGGGAGATATATGGAACCAACAGTGAGTGGGAGACT TTTGATGTCACAGATGCCATCAGACGTTGGCAAAGTCAGGCTCATCCACCACCCAGCTG GAGGTCCACATTGAGAGCAAACAGATGAAGCTGAGGATGCCAGCAGTGGACGGCTAGAA ATAGATACCAGTGCCAGAAATAAGCATAACCCTTTGCTCATCGTGTTTTCTGATGACCAA AGCAGTGACAAGGAGAGGAAGGAGGAAGTGAATGAAATGATTTCCCATGAGCAACTTCCA GAGCTGGACAACCTGGGCTGGATAGCTTTTCCAGTGGACCTGGGGAAGAGGCTTTGTTG CAGATGAGATCAAACATCATCTATGACTCCACTGCCCCGAATCAGAAGGAACGCCAAAGGA AACTACTGTAAGAGGACCCCGCTCTACATCGACTTCAAGGAGATTGGGTGGGACTCCTGG ATCATCGTCCGCTGGATACGAAGCCTATGAATGCCGTGGTGTGTAAGTACCCTCG GCAGAGCATCTCACCCACAAAGCATGAATTATCCAGGCTTGGTCCACCTCAAGAAT TCCCAGAAAGCTTCCAAAGCCTGCTGTGTGCCCAAAAGCTAGAGCCCATCTCCATCCTC TATTTAGACAAAGGCGTGTGTCACCTACAAGTTAAATACGAAGGCATGGCCGTCTCCGAA TGTGGCTGTAGATAG
Restriction Sites:	Please inquire
ACCN:	NM_014482
Insert Size:	1500 bp



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OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	There is one SNP in ORF.
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_014482.1 , NP_055297.1
RefSeq Size:	1584 bp
RefSeq ORF:	1275 bp
Locus ID:	27302
UniProt ID:	O95393
Cytogenetics:	2p13.3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
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 the mature protein, which binds to the activin receptor-like kinase 1 (ALK1) and plays important roles in cardiovascular development including cardiomyocyte proliferation and regulation of heart size, closure of the ductus arteriosus, angiogenesis and ventricular trabeculation. [provided by RefSeq, Aug 2016]</p>