

## Product datasheet for **SC313332**

### **BMP11 (GDF11) (NM\_005811) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BMP11 (GDF11) (NM\_005811) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** BMP11  
**Synonyms:** BMP-11; BMP11; VHO  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005811 edited  
 ATGGTCTCGCGCCCCGCTGCTGCTGGGCTTCTGCTCCTGCCCTGGAGCTGCGGCC  
 CGGGGGAGGCGGCCGAGGGCCCCGCGGGCGGCGGGCGGGCGGGCGGCGGAGCG  
 GCGGGGTCTGGGGGGAGCGCTCCAGCCGGCCAGCCCCGTCCGTGGCGCCGAGCCGAC  
 GGCTGCCCCGTGTGCGTTTGGCGGCAGCACAGCCGCGAGCTGCGCCTAGAGAGCATCAAG  
 TCGCAGATCTTGAGCAAAGTGCAGCTCAAGGAGGCGCCAAACATCAGCCGCGAGGTGGT  
 AAGCAGCTGCTGCCAAAGGCGCCGCGCTGCAGCAGATCCTGGACCTACACGACTCCAG  
 GGCGACGCGCTGCAGCCGAGGACTTCTGGAGGAGGACGAGTACCACGCCACCACCGAG  
 ACCGTATTAGCATGGCCAGGAGACGGACCCAGCAGTACAGACAGATGGCAGCCCTCTC  
 TGCTGCCATTTTCACTTACGCCCAAGGTGATGTTCAAAAGGTACTGAAGGCCAGCTG  
 TGGGTGTACCTACGGCCTGTACCCCGCCAGCCACAGTCTACCTGCAGATCTTGGACTA  
 AAACCCCTAACTGGGGAAGGGACCGCAGGGGAGGGGGCGGAGGCCGCGCTCACATCCGT  
 ATCCGCTCACTGAAGATTGAGCTGCACTCACGCTCAGGCCATTGGCAGAGCATCGACTTC  
 AAGCAAGTGTACACAGCTGGTTCGCCAGCCACAGAGCAAAGTGGGGCATCGAGATCAAC  
 GCCTTTGATCCCAGTGGCACAGACTGGCTGTACCTCCTGGGGCCGGGAGCCGAGGGG  
 CTGCATCCATTGAGGCTTCGAGTCTAGAGAACACAAAACGTTCCCGGCGGAACCTG  
 GGTCTGGACTGCGACGAGCACTCAAGCGAGTCCCGCTGCTGCCGATATCCCTCACAGTG  
 GACTTTGAGGCTTTCGGCTGGGACTGGATCATCGCACCTAAGCGCTACAAGGCCAACTAC  
 TGCTCCGGCCAGTGGAGTACATGTTTCATGCAAAAATATCCGCATACCCATTTGGTGCAG  
 CAGGCCAATCCAAGAGGCTCTGCTGGGCCCTGTTGTACCCCAACCAAGATGTCCCAATC  
 AACATGCTCTACTTCAATGACAAGCAGCAGATTATCTACGGCAAGATCCCTGGCATGGT  
 GTGGATCGCTGTGGCTGCTCTTAA



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005811 unedited  
 ATTTGTAATACGACTGCACTATAGGGCGGCCGGAATTCGCCCTTCGTGCTCTCCAGCAT  
 GGTGCTCGCGGCCCGCTGCTGTGGGCTTCTGCTCCTCGCCCTGGAGCTGCGGCCCG  
 GGGGGAGGCGGCCGAGGGCCCCGCGGCGGGCGGGCGGGCGGGCGGGCGGCAGCGGC  
 GGGGGTCGGGGGGGAGCGCTCCAGCCGGCCAGCCCCGTCGGTGGCGCCCAGCCGGACGG  
 CTGCCCCGTGTGCGTTTTGGCGGCAGCACAGCCGCGAGCTGCGCCTAGAGAGCATCAAGTC  
 GCAGATCTTGCCCAAGGGCGCCGCGCTGCAGCAGATCCTGGACCTACACGACTTCCAGGG  
 CGACGCGCTGCAGCCCGAGGACTTCTGGAGGAGGACGAGTACCACGCCACCACCGAGAC  
 CGTCATTAGCATGGCCCAAGAGACGGACCCAGCAGTACAGACAGATGGCAGCCCTCTCTG  
 GTGCCATTTCACTTAACCCCGAGGTGATGTCAACAAAGTACTTGAGGCCCACTTGTGGTG  
 GTACTACGGCCTGTACCCCGCCAGCCAGTCTACCTGAAGATTTGCGACTAAACCCCTAA  
 TGGGAAGGACCCANGGGAGGGCCGAGCCGCGTCAAATCGATCCGTCATGAAATGACT  
 GACTCACCTAGGCATGGAAAACATGACTAAGCAGTGCTACANGTGTTCGACGCCAAAACA  
 TTGGGATTAGATAACCTGTTN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005811 unedited  
 NNGGTGCCCCATTGGGNNGATGGCAACTTNCCAGGNCCAGNAAAGCACTGGGGAAGGT  
 CACAGGGATGCCACCCGGATCTGTTTCAGGAAACAGCTATGACCGCGGCCCAATCTAGA  
 GTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTACCCTTTAAGCCTGTTTATCCCTTCTGTC  
 ATACTCACAAGCATTTTTTATCCTCTGTGAAGAGGTTAAGTTACCCACCCACCAAGTCTT  
 TGCTCCAGCAGCTGTAGTGACCCACTAAGAGCAGCCACAGCGATCCACCACCATGCCA  
 GGGATCTTGCCGTAATAATCTGCTGCTTGTCAATTGAAGTAGAGCATGTTGATTGGGGAC  
 ATCTTGGTGGGGGTACAACAGGGCCCAGCAGAGCCTCTTGATTGCGCTGCTGCACAAA  
 TGGGATGCGGATATTTTGCATGAACATGTACTIONCGCACTGGCCGGAGCAGTAGTTGGCC  
 TTGTAGCGCTTAGGTGCGATGATCCAGTCCCAGCCGAAAGCCTCAAAGTCCACTGTGAGG  
 GGATATCGGCAGCAGCGGGACTCGCTTGAGTGCTGTCGCGAGTCCAGACCCAGGTTCCGC  
 CGGGAACGTTTTTGTTCTCTAGGACTCGAAGTCCATGAATGGATGCAGCCCTCGGCT  
 CCCGGCCCCAGGGAGGTGACAGCCAGGTCTGTGCCACTGGGATCAAAGGCGTTGATCTCG  
 ATGCCCCAGTTGCTCTGTGGCTGGCGGAACCAGCTGTGTAGCACTTGCTTGAAGTCGATG  
 CTCTGCCAATGGCCTGAGCGTGAGTGCAGCTCAATCTTCAGTGAGCGGATACCGATGTGA  
 CCGCCGCCTNCGCCCTCCCCCTGNNGTCCCTTTCCAGTAGGGGTTTTAGTCCCAGAAC  
 TGG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_005811

**Insert Size:**

1400 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](mailto: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](#)

|                               |  |
|-------------------------------|--|
| <b>OTI Annotation:</b>        | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.  |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>                              |
| <b>RefSeq:</b>                | <a href="#">NM_005811.2</a> , <a href="#">NP_005802.1</a>  |
| <b>RefSeq Size:</b>           | 1662 bp  |
| <b>RefSeq ORF:</b>            | 1224 bp  |
| <b>Locus ID:</b>              | 10220  |
| <b>UniProt ID:</b>            | <a href="#">O95390</a>   |
| <b>Cytogenetics:</b>          | 12q13.2  |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein   |
| <b>Gene Summary:</b>          | 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 plays a role in the development of the nervous and other organ systems, and may regulate aging. [provided by RefSeq, Aug 2016] |