

## Product datasheet for **RG222080**

### BMP11 (GDF11) (NM\_005811) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: BMP11 (GDF11) (NM\_005811) Human Tagged ORF Clone  
Tag: TurboGFP  
Symbol: BMP11  
Synonyms: BMP-11; BMP11; VHO  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-AC-GFP (PS100010)  
E. coli Selection: Ampicillin (100 ug/mL)  
ORF Nucleotide Sequence: >RG222080 representing NM\_005811  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCTCGGGCCCCGCTGCTGCTGGGCTTCTGCTCCTCGCCCTGGAGCTGCGGCCCGGGGGGAGG  
CGGCCGAGGGCCCCGCGCGGGCGGGCGGGCGGGCGGGCGGGCGGCAGCGCGGGGTGGGGGGAGCG  
CTCCAGCCGGCCAGCCCCGTCCGTGGCGCCGAGCCGGACGGCTGCCCGTGTGCGTTTGGCGGCAGCAC  
AGCCGCGAGCTGCGCCTAGAGAGCATCAAGTCGAGATCTTGAAGAACTGCGGCTCAAGGAGGCGCCCA  
ACATCAGCCGCGAGGTGGTGAAGCAGCTGCTGCCAAGGGCGCCGCTGACGAGATCCTGGACCTACA  
CGACTTCAGGGCGACGCGCTGCAGCCGAGGACTTCTGGAGGAGGACGAGTACCACGCCACCACCGAG  
ACCGTCATTAGCATGGCCAGGAGACGGACCCAGCAGTACAGACAGATGGCAGCCCTCTGCTGCCATT  
TTCACTTCAGCCCCAAGGTGATGTTACAAAGGTAAGGCTAAGGCCCAGTGTGGGTGTACCTACGGCCTGT  
ACCCCGCCAGCCACAGTCTACCTGCAGATCTTGGGCAAAACCCCTAACTGGGAAGGGACCGCAGGG  
GGAGGGGGCGGAGGCCGGCGTCACATCCGTATCCGCTCACTGAAGATTGAGTGCACGCTCAGGCC  
ATTGGCAGAGCATCGACTTCAAGCAAGTGTACACAGTGGTCCGCCAGCCACAGACAACTGGGGCAT  
CGAGATCAACGCCCTTTGATCCCAGTGGCAGACAGCTGGCTGTCACTCCCTGGGGCCGGGAGCCAGGGG  
CTGCATCCATTCAGAGCTTCGAGTCTTGAAGAACACAAAACGTTCCCGCGGAACCTGGGTCTGGACT  
CGGACGAGCACTCAAGCGAGTCCCCTGCTGCGGATATCCCTCACAGTGGACTTTGAGGCTTTTCGGCTG  
GGACTGGATCATCGACCTAAGCGCTACAAGGCAACTACTGCTCCGGCCAGTGCAGTACATGTTTCATG  
CAAAAATATCCGCATACCCATTTGGTGCAGCAGGCCAATCCAAGAGGCTCTGCTGGCCCTGTTGTACCC  
CCACCAAGATGTCCCAATCAACATGCTTCAATGACAAGCAGCAGATTATCTACGGCAAGATCCC  
TGGCATGGTGGTGGATCGCTGTGGCTGCTCT

**ACGGTACGCGGCGCTCGAG** - GFP Tag - GTTTAA



**Protein Sequence:** >RG222080 representing NM\_005811  
 Red=Cloning site Green=Tags(s)

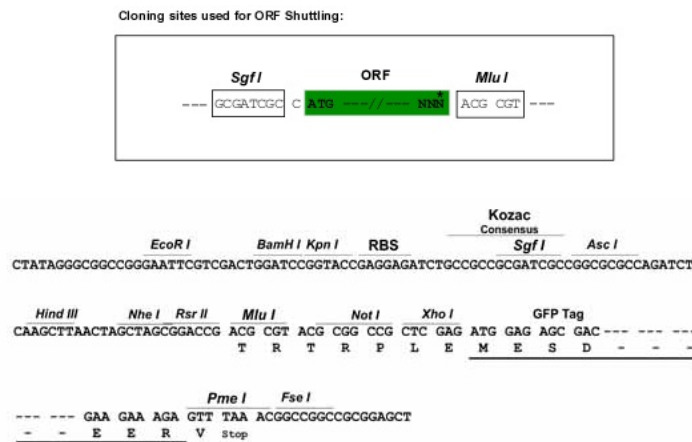
MVLAAPLLLGFLLLALELRPRGEEAEGPAAAAAAAAAAGVGGERSRPPASVAPEPDGCPVCVWRQH  
 SRELRESIKSQILSKLRLKEAPNISREVVKQLLPKAPPLQQILDHDFQGDALQPEDFLEEDEYHATTE  
 TVISMAQETDPAVQTDGSPLCCHFHFSPKVMFTKVLKAQLWVYLRPVPRPATVYLLQILRLKPLTGEETAG  
 GGGGRRRHIRIRSLKIELHSRSGHWQSIDFKQVLHSWFRQPQSNWGIEINAFDPSGTDLAVTSLGPGAEG  
 LHPFMELRVLENTKRSRRNLGLDCDEHSSESRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMF  
 QKYPHTHLVQANPRGSAGPCCTPTKMSPINMLYFNDKQQIYIGKIPGMVVDRCGCS

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2727\\_d02.zip](https://cdn.origene.com/chromatograms/ja2727_d02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005811

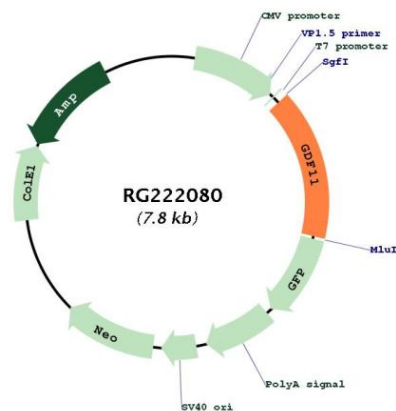
**ORF Size:** 1221 bp

**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>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_005811.5</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]

## Product images:



Circular map for RG222080