

Product datasheet for **MG226570**

Bmp10 (NM_009756) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bmp10 (NM_009756) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Bmp10
Synonyms: b2b2711C; b2b2711Clo
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226570 representing NM_009756
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTCTCTGGTTCTGCCGCTGAGCGCGTCTTCTGCCTGGTGGCTCACTCGGCTTCTGGCAGCCCCA
 TTATGGGCCTTGAGCAGTCGCCCTGGAAGAAGACATGCCCTTCTTTGATGATATCTTCACGAGCAAGA
 TGGTATTGACTTCAACACTGCTGCAGAGCATGAAGAACGAGTTTCTCAAGACGCTGAAGTTGTCGGAC
 ATTCCTGTGCAGGACACGGGCAGAGTGGATCCACCAGAGTACATGCTGGAGCTTACAACAAATTCGCCA
 CAGACCGGACCTCCATGCCGTCTGCTAACATCATCCGGAGCTTCAAGAACGAAGATCTGTTTTCTCAACC
 AGTCACTTTTAATGGGCTCCGAAATATCCTCTCCTTCAATGTGTCTATCCCTCACCATGAAGAGGTC
 GTCATGGCTGAACTGCGGTTGTACACGCTGGTGCAGAGAGATCGCATGATGTATGATGGCGTGGACCGTA
 AAATTACCATTTTTGAGGTAAGTACTAGAGAGTGCAGACGGTAGCGAGGAGGAGGAGCATGCTGGTCTAGT
 ATCAACAGAGATCTACGGAACCAACAGTGGAGGACATTTGACGTCACAGATGCCACCAGACGTTGG
 CAAAAGTCAGGCCATCAACCCATCAGCTGGAGATCCACATAGAAAGCAGACAAAACCAAGCTGAGGACA
 CCGGAAGGGGACAACGGAAATAGATATGAGTGCCCAAAATAAGCATGACCCTTTGCTGGTTGTGTTTTTC
 TGATGACCAAAGCAATGACAAGGAGCAGAAAGAAGAAGTGAACGAATTGATCACCCATGAGCAGGATCTG
 GACCTGGACTCAGATGCTTTCTTCAAGTGGGCCGATGAAGAGGCTCTGCTGCAGATGAGGTCGAACATGA
 TTGATGATTCTCGCTCGGATCAGGAGGAACGCCAAGGGGAACACTGTGAAGAAGACCCCACTATACAT
 CGACTTCAAGGAGATTGGGTGGGACTCCTGGATCATCGCTCCTCCTGGGTATGAAGCCTATGAGTGCCGG
 GGTGTGTGTAACCTCTGGCGGAGCACCTCACACCTACAAAACACGCAATTATTCAGGCCTTGGTCC
 ACCTCAAGAAATCCAGAAAGCTTCAAAGCCTGCTGTGTGCCACGAAGCTGGATCCCATCTCCATCCT
 CTATTTAGATAAAGGTGTCGTCACCTACAAGTTTAAATATGAAGGGATGGCTGTGTCTGAGTGTGGCTGT
 AGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226570 representing NM_009756
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MGSLVLPLSAVFCLVAHSASGSPIMGLEQSPLEEDMPFFDDIFTEQDGDIFNTLLQSMKNEFLKTLNLS
 IPVQDTGRVDPPEYMLELYNKFATDRTSMPSANIIRSFKNEDLFSQPVTFNGLRKYPLLFNVSIPHHEEV
 VMAELRLYTLVQRDRMMYDGVDRKITIFEVLESADGSEEERSMLVLVSTEIYGTNSEWETFVDTDATRRW
 QKSGPSTHQLEIHIESRQQAEDTGRGQLEIDMSAQNKHDPLL VVF SDDQSNKEQKEELNELITHEQDL
 DLDSDAFFSGPDEEALLQMRSNMIDDSSARIRRNAKGNKYCKKTPLYIDFKEIGWDSWIIAPPGYEA YECR
 GVCNYPLAEHLTPTKHAI IQALVHLKNSQKASKACCVPTKLDPISILYLDKGVVYTKFKYEGMAVSECGR

TRTRPLE - GFP Tag - V

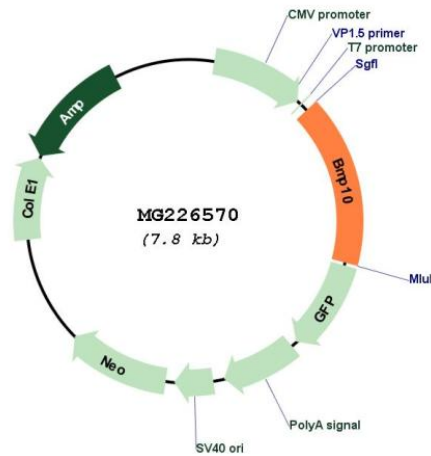
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_009756

ORF Size:	1263 bp
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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_009756.3
RefSeq Size:	1317 bp
RefSeq ORF:	1266 bp
Locus ID:	12154
UniProt ID:	Q9R229
Cytogenetics:	6 D1
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. Homozygous knockout mice for this gene exhibit impaired heart development and embryonic lethality. [provided by RefSeq, Aug 2016]</p>