

Product datasheet for **MR226570**

Bmp10 (NM_009756) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp10 (NM_009756) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bmp10
Synonyms:	b2b2711C; b2b2711Clo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR226570 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGTCTCTGGTTCTGCCGCTGAGCGCCGCTTCTGCCTGGTGGCTCACTCGGCTTCTGGCAGCCCCA
 TTATGGGCCTTGAGCAGTCGCCCCGGAAGAAGACATGCCCTTCTTTGATGATATCTTCACGGAGCAAGA
 TGGTATTGACTTCAACACACTGCTGCAGAGCATGAAGAACGAGTTTCTCAAGACGCTGAACCTTGTGGAC
 ATTCCTGTGCAGGACACGGGCAGAGTGGATCCACCAGAGTACATGCTGGAGCTCTACAACAAATTCGCCA
 CAGACCGGACCTCCATGCCGTCTGCTAACATCATCCGGAGCTTCAAGAACGAAGATCTGTTTTCTCAACC
 AGTCACTTTTAATGGGCTCCGAAATATCCTCTCCTCTCAATGTGTCTATCCCTCACCATGAAGAGGTC
 GTCATGGCTGAAGTCCGGTTGTACACGCTGGTGCAGAGAGATCGCATGATGATGATGGCGTGGACCGTA
 AAATTACCATTTTGGAGTACTAGAGAGTGCAGACGGTAGCGAGGAGGAGAGGAGCATGCTGGTCTTAGT
 ATCAACAGAGATCTACGGAACCAACAGTGAAGTGGGAGACATTTGACGTCACAGATGCCACCAGACGTTGG
 CAAAAGTCAGGCCATCAACCCATCAGCTGGAGATCCACATAGAAAGCAGACAAAACCAAGCTGAGGACA
 CCGGAAGGGGACAACGGAAATAGATATGAGTGCCAAAATAAGCATGACCCCTTGTGGTTGTGTTTTTC
 TGATGACCAAAGCAATGACAAGGAGCAGAAAGAAGAACTGAACGAATTGATCACCCATGAGCAGGATCTG
 GACCTGGACTCAGATGCTTTCTCAGTGGGCCGATGAAGAGGCTCTGCTGCAGATGAGGTGCAACATGA
 TTGATGATTCGTCGCTCGGATCAGGAGAACGCCAAGGGGAACACTGTGAAGAAGACCCCACTATACAT
 CGACTTCAAGGAGATTGGGTGGGACTCCTGGATCATCGCTCCTCCTGGGTATGAAGCCTATGAGTGCCGG
 GGTGTGTGTAACCTCCTGGCGGAGCACCTCACACCTACAAAACACGCAATTATTCAGGCCTTGGTCC
 ACCTCAAGAATCCCAGAAAGCTTCAAAGCCTGCTGTGTGCCACGAAGCTGGATCCCATCTCCATCCT
 CTATTTAGATAAAGGTGTCGTACCTACAAGTTAAATATGAAGGGATGGCTGTGTCTGAGTGTGGCTGT
 AGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226570 protein sequence
 Red=Cloning site Green=Tags(s)

MGSLVLP LSAVFCLVAHSASGSPIMGLEQSPLEEDMPFFDDIFTEQDGFNTLLQSMKNEFLKTLNLS
 IPVQDTGRVDPPEYMLELYNKFATDRSMP SANIIRSFKNEDLFSQPVTFNGLRKYPLLFNVSIPHHEEV
 VMAELRLYTLVQRDRMMYDGVDRKITIFEVLESADGSEEEERSMLVLVSTEIYGTNSEWETFVDTATRRW
 QKSGPSTHQLEIHIESRQNAEDTGRGQLEIDMSAQNKHDPLL VVFSDDQSNKKEQKEELNELITHEQDL
 DLDSDAFFSGPDEEALLQMRNMIDDSSARIRRNAKGN YCKKTPLYIDFKEIGWDSWIIAPPGYEA YECR
 GVCNYPLAEHLTPTKHAI IQALVHLKNSQKASKACCVPTKLDPI SILYLDKGVVYKFKYEGMAVSECGC
 R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

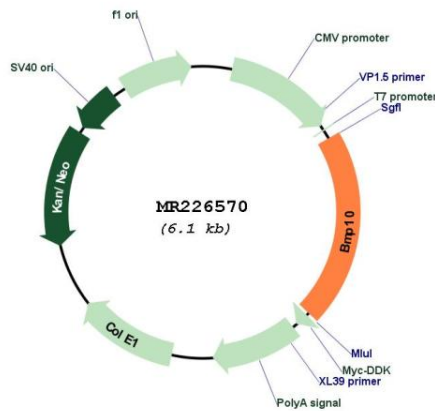
Restriction Sites:

SgfI-MluI

RefSeq Size: 1317 bp
 RefSeq ORF: 1266 bp
 Locus ID: 12154
 UniProt ID: [Q9R229](#)
 Cytogenetics: 6 D1
 MW: 47.9 kDa

Gene Summary: 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]

Product images:



Circular map for MR226570