

Product datasheet for **RN206284**

Bmp10 (NM_001031824) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bmp10 (NM_001031824) Rat Untagged Clone
Tag: Tag Free
Symbol: Bmp10
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN206284 representing NM_001031824
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTTCTCTGGTTCTGCCGCTGAGCGCCGCTTCTGCCTGGTGGCTCGTCTGGCTTCTGGCAGCCCCA
 TCATGGGCCTTGAGCAGTCGCCCTGGAAGAAGACATGCCCTTCTTTGATGATATCTTCACAGAACAAGA
 TGGTATTGACTTCAACACTGCTGCAGAGCATGAAGGACGAGTTTCTCAAGACGTTGAATCTGTCAGAC
 ATTCCCCACAGGACACAGGCAGAGTGGATCCGCCGAGTACATGCTGGAGCTCTACAACAAATTCGCCA
 CGGACCGGACCTCCATGCCATCTGCTAACATCATCCGGAGCTTCAAGAATGAAGATCTGTTTTCTCAACC
 AGTCAGTTTCAATGGGATCCGGAAGTATCCTCTCCTTCAACGTGCCATCCCTCACCAGAAGAGGTC
 GTCATGGCTGAACTGAGGTTGTACACGCTGGTGCAGAGAGATCGTTTGTATGATGGTGTGGACCGTA
 AAATAATCATCTTTGAGGTTCTAGAGAGTGCCGATGGTAGCGAGGATGAGAGGAGCATGCTGGTCTTGGT
 ATCAACGGAGATCTACGGAACCAACAGTGAGTGGGAGACATTTGACATCACGGATGCCACCAGACGTTGG
 CAAAAGTCAGGCCATCAACCCACCAGCTGGAGATCCACATCGAAAGCAGACAAAACCAAGCTGAGGACA
 CCGGAAGGGGACAACCTGGAATAGATATGAGTGTCTCAGAATAAGCAGACCCCTTGGCTTGTGTGTTTTTC
 TGATGACCAAAGCGGTGACAAGGAGCAGAAAGAAGAGCTGAATGAACTGATCTCCCACGAGCAGGATCTG
 GACCTGGGCACCGATGGTTTCTTTGGTGGGCTGATGAAGAGGCTCTCCTGCAGATGAGGTCAAACATGA
 TCGATGACTCTACCGCTCGGATCAGGAGGAACGCCAAGGGGAACTACTGCAAGAAGACTCCACTGTACAT
 CGACTTCAAGGAGATCGGCTGGGACTCCTGGATCATCGCGCTCCTGGTTACGAGGCCTATGAGTGCCGC
 GGTGTGTGCAACTACCTCTGGCGGAGCACCTCACACCTACGAAACACGCAATTATCCAGGCCTTGGTCC
 ACCTCAAGAATCCCAGAAAGCCTCAAAGCCTGCTGCGTGCCACGAAGCTGGATCCCATCTCCATCCT
 CTATTTAGATAAAGGTGTTGTACCTATAAGTTTAAATACGAAGGAATGGCCGTGCTGAATGTGGCTGT
 AGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



[View online »](#)

ACCN:	NM_001031824
Insert Size:	1266 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001031824.1</u> , <u>NP_001026994.1</u>
RefSeq Size:	1266 bp
RefSeq ORF:	1266 bp
Locus ID:	500245
UniProt ID:	<u>Q4AEG6</u>
Cytogenetics:	4q34
Gene Summary:	Required for maintaining the proliferative activity of embryonic cardiomyocytes by preventing premature activation of the negative cell cycle regulator CDKN1C/p57KIP and maintaining the required expression levels of cardiogenic factors such as MEF2C and NKX2-5. Acts as a ligand for ACVRL1/ALK1, BMPR1A/ALK3 and BMPR1B/ALK6, leading to activation of SMAD1, SMAD5 and SMAD8 transcription factors. Inhibits endothelial cell migration and growth. May reduce cell migration and cell matrix adhesion in breast cancer cell lines.[UniProtKB/Swiss-Prot Function]