

Product datasheet for **MR206847**

Bmp7 (NM_007557) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp7 (NM_007557) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bmp7
Synonyms:	O; OP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206847 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCACGTGCGCTCGCTGCGCGCTGCGGCGCCACACAGCTTCGTGGCGCTCTGGGCGCCTCTGTTCTTGC
 TGCCTCCGCCCTGGCCGATTCAGCCTGGACAACGAGGTGCACTCCAGCTTCATCCACCGCGCCTCCG
 CAGCCAGGAGCGGCGGGAGATGCAGCGGAGATCCTGTCCATCTTAGGGTTGCCCATCGCCCGCGCCCG
 CACCTCCAGGAAAGCATAATTCGCGGCCATGTTTATGTTGGACCTGTACAACGCCATGGCGGTGGAGG
 AGAGCGGGCCGGACGGACAGGGCTTCTCTACCCCTACAAGGCCGCTTTCAGTACCCAGGGCCCCCTTT
 AGCCAGCTGCAGGACAGCCACTTCTCACTGACGCCGACATGGTCATGAGCTTCGTCAACCTAGTGGAA
 CATGACAAAGAATTCTCCACCCTCGATACCACCATCGGGAGTCCGGTTTGATCTTTCCAAGATCCCCG
 AGGGCGAAGCGGTGACCCGAGCCGAATTCAGGATCTATAAGGACTACATCCGGGAGCGATTTGACAACGA
 GACCTTCCAGATCACAGTCTATCAGGTGCTCCAGGAGCACTCAGGCAGGGAGTCGGACCTCTTCTGCTG
 GACAGCCGACCATCTGGGCTTCTGAGGAGGGCTGGTTGGTGTGGATATCACAGCCACCAGCAACCACT
 GGGTGGTCAACCTCGGCACAACCTGGGCTTACAGCTCTCTGTGGAGACCCTGGATGGGCAGAGCATCAA
 CCCAAGTTGGCAGGCTGATTGGACGGCATGGACCCAGAACAAGCAACCTTCATGGTGGCCTTCTTC
 AAGGCCACGGAAGTCCATCTCCGTAGTATCCGGTCCACGGGGGCAAGCAGCGCAGCCAGAATCGTCCA
 AGACGCCAAAGAACAAGAGGCCCTGAGGATGGCCAGTGTGGCAGAAAACAGCAGCAGTACCAGAGGCA
 GGCCTGCAAGAAACATGAGCTGTACGTCAGCTCCGAGACCTGGCTGGCAGGACTGGATCATTGCACCT
 GAAGGCTATGCTGCCTACTACTGTGAGGGAGAGTGGCCTTCCCTCTGAACCTCTACATGAACGCCACCA
 ACCACGCCATCGTCCAGACACTGGTTCACCTCATCAACCCAGACACAGTACCCAAGCCCTGCTGTGCGCC
 CACCCAGCTCAACGCCATCTCTGCTCTACTTTCGACGACAGCTCAATGTCATCCTGAAGAAGTACAGA
 AACATGGTGGTCCGGCCTGTGGCTGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206847 protein sequence
 Red=Cloning site Green=Tags(s)

MHVRSLRAAAPHSFVALWAPLFLLRSALADFLDNEVHSSF IHRRLRSQERREMQR EILSILGLPHRPRP
 HLQGKHNSAPMFLDLYNAMAVEESGPDGQGF SYPYKAVFSTQGPPLASLQDSHFLTDADMVMSFVNLVE
 HDKEFFHPRYHHREFRDL SKIPEGEAVTAAEFRIYKDYIRERFDNETFQITVYQVLQEHSGRESDFLL
 DSRTIWASEEGWLVFDITATSNHWVVPNRHNLGLQLSVETLDGQSNPKLAGLIGRHGPQNKQPFMVAFF
 KATEVHLRSIRSTGGKQRSQNRSKTPKNQEALRMASVAENSSDQRQACKKHEL YVSFRDLGWQDWI IAP
 EGYAAYYCEGECAFPLNSYMNATNHAI VQTLVHF INPDTVPKPCCAPTQLNAISVL YFDDSSNVILKKYR
 NMVVRACGCH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_007557

ORF Size: 1293 bp

OTI Disclaimer: 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](#)

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:

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_007557.3](#)

RefSeq Size: 3670 bp

RefSeq ORF: 1293 bp

Locus ID: 12162

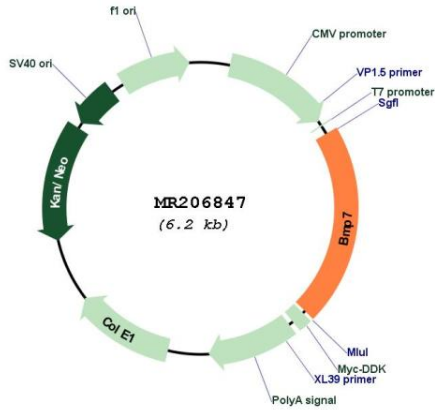
UniProt ID: [P23359](#)

Cytogenetics: 2 95.54 cM

MW: 49.2 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 each subunit of the disulfide-linked homodimer. Mutation of this gene results in skeletal, kidney, and other developmental defects. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MR206847