

Product datasheet for **MG206847**

Bmp7 (NM_007557) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp7 (NM_007557) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bmp7
Synonyms:	O; OP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206847 representing NM_007557 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACGTGCGCTCGCTGCGCGCTGCGGCGCCACACAGCTTCGTGGCGCTCTGGGCGCCTCTGTTCTTGC
TGCCTCCGCCCTGGCCGATTTACGCTGGACAACGAGGTGCACTCCAGCTTCATCCACCGGCGCCTCCG
CAGCCAGGAGCGGCGGAGATGCAGCGGAGATCCTGTCCATCTTAGGGTTGCCCATCGCCCGCGCCCG
CACCTCCAGGAAAGCATAATTCGCGGCCATGTTTCATGTTGGACCTGTACAACGCCATGGCGGTGGAGG
AGAGCGGCGCGGACGACAGGGCTTCTCCTACCCCTACAAGCGCTTTCAGTACCCAGGGCCCCCTTT
AGCCAGCTGCAGGACAGCCACTTCCTCACTGACGCCGACATGGTCATGAGCTTCGTCAACCTAGTGAA
CATGACAAAGAATTCTTCCACCCTCGATACCACCATCGGGAGTTCGGTGTGATCTTTCCAAGATCCCCG
AGGGCGAAGCGGTGACCGCAGCCGAATTCAGGATCTATAAGGACTACATCCGGGAGCGATTTGACAACGA
GACCTTCAGATCACAGTCTATCAGGTGCTCCAGGAGCACTCAGGCAGGGAGTCGGACCTCTTCTTGCTG
GACAGCCGACCATCTGGGCTTCTGAGGAGGGCTGTTGGTGTGATATCACAGCCACCAGCAACCACT
GGTGGTCAACCTCGGCACAACCTGGGCTTACAGCTCTCTGTGGAGACCCTGGATGGGCAGAGCATCAA
CCCCAAGTTGGCAGGCCATGATTGGACGGCATGGACCCAGAACAAGCAACCTTCATGGTGGCCTTCTTC
AAGGCCACGGAAGTCCATCTCCGTAGTATCCGGTCCAGGGGGCAAGCAGCGCAGCCAGAATCGCTCCA
AGACGCCAAAGAACCAAGAGCCCTGAGGATGGCCAGTGTGGCAGAAAACAGCAGCAGTGACCAGAGGCA
GGCCTGCAAGAAACATGAGCTGTACGTACGCTTCCGAGACCTTGCTGGCAGGACTGGATCATTGCACCT
GAAGGCTATGCTGCCTACTACTGTGAGGAGAGTGCCTTCCCTCTGAACTCCTACATGAACGCCACCA
ACCACGCCATCGTCCAGACACTGGTTCCTTTCATCAACCCAGACACAGTACCCAAGCCCTGCTGTGCGCC
CACCCAGCTCAACGCCATCTCTGCTCTACTTCGACGACAGCTCTAATGTCATCCTGAAGAAGTACAGA
AACATGGTGGTCCGGCCTGTGGCTGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206847 representing NM_007557
 Red=Cloning site Green=Tags(s)

MHVRSLRAAAPHSFVALWAPLFLLRSALADFLDNEVHSSF IHRRLRSQERREMQR EILSILGLPHRPRP
 HLQ GKHN SAPMFLDLYNAMAVEESGPDGQGF SYPYKAVFSTQGPPLASLQDSHFLTDADMVMSFVNLVE
 HDKEFFHPRYHHRFRFDLSKIPEGEAVTAAEFRIYKDYIRERFDNETFQITVYQVLQEHSGRESDFLL
 DSRTIWASEEGWL VFDITATSNHWVVNPRHNLGLQLSVETLDGQ S INPKLAGLIGRHGPQNKQPFMVAFF
 KATEVHLRSIRSTGGKQRSQNRSKTPKNQ EALRMASVAENSSDQRQACKKHEL YVSFRDLGWQDWIIAP
 EGYAAYYCEGECAPLNSYMNATNHAI VQTLVHF INPDTVPKPCCAPTQLNAISVL YFDDSSNVILKKYR
 NMVVRACGCH

TRTRPLE - GFP Tag - V

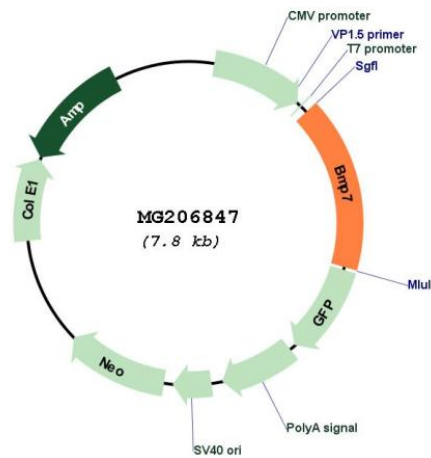
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_007557

ORF Size:	1290 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:	<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_007557.3
RefSeq Size:	1987 bp
RefSeq ORF:	1293 bp
Locus ID:	12162
UniProt ID:	P23359
Cytogenetics:	2 95.54 cM
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]