

Product datasheet for **MG225467**

Bmp4 (NM_007554) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp4 (NM_007554) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bmp4
Synonyms:	Bmp-; Bmp-4; Bmp2; Bmp2b; Bmp2b-; Bmp2b-1; Bmp2b1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225467 representing NM_007554 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTCTGGTAACCGAATGCTGATGGTCGTTTTATTATGCCAAGTCCTGCTAGGAGGCGCGAGCCATG
CTAGTTTGATACCTGAGACCGGGAAGAAAAAGTCGCCGAGATTCAGGGCCACGCGGGAGGACGCCGCTC
AGGGCAGAGCCATGAGCTCCTGCGGGACTTCGAGGCGACACTTCTACAGATGTTGGGCTGCGCCCGCT
CCGCAGCCTAGCAAGAGCGCCGTCATTCGGATTACATGAGGGATCTTACCGGCTCCAGTCTGGGAGG
AGGAGGAGGAAGAGCAGAGCCAGGGAACCGGGCTTGAGTACCCGGAGCGTCCCGCCAGCCGAGCCAACAC
TGTGAGGAGTTTCCATCACGAAGAACATCTGGAGAACATCCCAGGGACCACTGAGAGCTCTGCTTTTCGT
TTCTCTTCAACCTCAGCAGCATCCCAGAAAATGAGGTGATCTCCTCGGCAGAGCTCCGGCTCTTTCGGG
AGCAGGTGGACCAGGGCCCTGACTGGGAACAGGGCTTCCACCGTATAAACATTTATGAGGTTATGAAGCC
CCCAGCAGAAATGGTTCCTGGACACCTCATCACGACTACTGGACACCAGACTAGTCCATCACAATGTG
ACACGGTGGGAACTTTCGATGTGAGCCCTGCAGTCCTTCGCTGGACCCGGGAAAAGCAACCAATTATG
GGCTGGCATTGAGGTGACTCACCTCCACCAGACACGGACCCACCAGGGCCAGCATGTGAGAATCAGCCG
ATCGTTACCTCAAGGGAGTGGAGATTGGGCCAACTCCGGCCCTCCTGGTCACTTTTGGCCATGATGGC
CGGGCCATACCTTGACCCGACGAGGGCCAAACGTAGTCCCAAGCATCACCCACAGCGGTCCAGGAAGA
AGAATAAGAACTGCCGTGCCATTCACTATACGTGGACTTCAGTGGACTTCAGTGACGTGGCTGGAATGATTGGATTGT
GGCCCCACCCGGTACCAGGCCCTTCTACTGCCATGGGGACTGTCCCTTTCCTACTGGCTGATCACCTCAAC
TCAACCAACCATGCCATTGTGCAGACCCTAGTCAACTCTGTTAATTCTAGTATCCCTAAGGCCTGTTGTG
TCCCCACTGAACTGAGTGCCATTTCCATGTTGTACCTGGATGAGTATGACAAGGTGGTGTGAAAAATTA
TCAGGAGATGGTGGTAGAGGGGTGGATGCCG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225467 representing NM_007554
 Red=Cloning site Green=Tags(s)

MIPGNRMLMVLLCQVLLGGASHASLIPETGKKKVAEIQGHAGGRRSGQSHELLRDFEATLLQMFLRRR
 PQPSKSAVIPDYMRDL YRLQSGEEEEEQSGTGLEYPERPASRANTVRSFHHEEHLNIPGTSESAFR
 FLFNLSSIPENEVISSAELRLFREQVDQGPDWEQGFHRINIYEVMKPPAEMVPGHLITRLLDTRLVHHNV
 TRWTFDVSFAVLRWTREKQPNYGLAIEVTHLHQTRTHQGQHVIRSRSLPQSGDWAQLRPLLVTFGHDG
 RGHTLTRRRRAKRSFKHPQRSRKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLN
 STNHAIVQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007554

ORF Size: 1224 bp

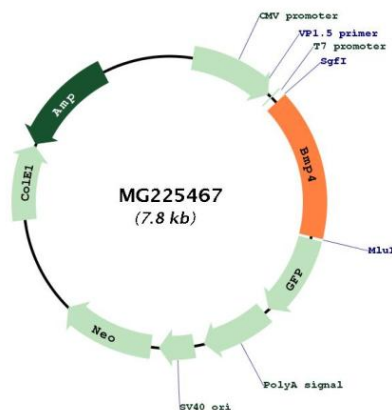
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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:	<u>NM_007554.2, NP_031580.2</u>
RefSeq Size:	1994 bp
RefSeq ORF:	1227 bp
Locus ID:	12159
UniProt ID:	<u>P21275</u>
Cytogenetics:	14 23.95 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. This protein regulates heart development and adipogenesis. Homozygous knockout mice die in utero, while a conditional knockout mouse exhibits defects in heart development. Transgenic mice overexpressing this gene in a neuron-specific manner exhibit a phenotype resembling the rare hereditary connective tissue disease, fibrodysplasia ossificans progressiva. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MG225467