

Product datasheet for **MG227677**

Bmp2 (NM_007553) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp2 (NM_007553) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bmp2
Synonyms:	Al467020; Bmp; Bmp2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227677 representing NM_007553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCCGGACCCGCTGTCTTCTAGTGTGCTGCTTCCCAGGTCTCCTGGGCGGCGGGCCGGCC
TCATTCCAGAGCTGGGCCGAAGAAGTTCGCCGGCATCCAGCCGACCCTTGCCCGCCTTCGGAAGA
CGTCTCAGCGAATTTGAGTTGAGGCTGCTCAGCATGTTGGCCTGAAGCAGAGACCCACCCAGCAAG
GACGTCGTGGTCCCTTATATGCTAGATCTGTACCGCAGGCACTCAGGCCAGCCAGGAGCGCCCGCC
CAGACCACGGCTGGAGAGGGCAGCCAGCCGCGCAACACCGTGCAGCTTCCATCACGAAGAAGCCGT
GGAGAACTTCCAGAGATGAGTGGAAAACGGCCCGGCGCTTCTTCTCAATTAAGTTCTGTCCCACT
GACGAGTTTCTCACATCTGCAGAACTCCAGATCTTCCGGGAACAGATACAGGAAGCTTTGGAAAACGTA
GTTTCCAGCACCGAATTAATATTTATGAAATTATAAAGCCTGCAGCAGCCAACTTGAATTTCTGTGAC
CAGACTATTGGACACCAGGTTAGTGAATCAGAACAAGTCAGTGGGAGAGCTTCGACGTCACCCAGCT
GTGATGCGGTGGACCACACAGGGACACCAACCATGGTTTTGGTGGAAAGTGGCCATTTAGAGGAGA
ACCCAGGTGTCTCAAGAGACATGTGAGGATTAGCAGGCTTTGCACCAAGATGAACACAGCTGGTCACA
GATAAGGCCATTGCTAGTGACTTTTGGACATGATGGAAAAGGACATCCGCTCCACAAAACGAAAAAGCGT
CAAGCCAAACACAAACAGCGGAAGCGCCTCAAGTCCAGCTGCAAGAGACACCCCTTGTATGTGGACTTCA
GTGATGTGGGTGGAATGACTGGATCGTGGCACCTCCGGGTATCATGCCTTTTACTGCCATGGGGAGTG
TCCTTTTCCCCTTGTGACCACCTGAACTCCACTAACCATGCCATAGTGCAGACTCTGGTAACTCTGTG
AATTCCAAAATCCCTAAGGCATGCTGTGTCCACAGAGCTCAGCGCAATCTCCATGTTGTACCTAGATG
AAAATGAAAAGGTTGTGCTAAAAAATTATCAGGACATGTTGTGGAGGGCTGCGGGTGTCTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227677 representing NM_007553
Red=Cloning site Green=Tags(s)

MVAGTRCLLVLLLPQVLLGGAAGLIPELGRKKFAAASSRPLSRPSEDVLESEFELRLLSMFGLKQRPTPSK
 DVVVPYMLDLYRRHSGQPGAPADHRLERAASRANTVRSFHHEEAVEELPEMSGKTARRFFNLSSVPS
 DEFLLTSAELQIFREIQEALGNSSFQHRINIYEIIKPAANLKFVTRLLDTRLVNQNTSQWESFDVTPA
 VMRWTTQGHNTNHFVVEVAHLEENPGVSKRHVRI SRSLHQDEHSWSQIRPLLVTFGHDGKGPLHKREKR
 QAKHKQRKRLKSSCKRHPLYVDFSDVGNWDWIVAPPGYHAFYCHGECPPFLADHLNSTNHAIVQTLVNSV
 NSKIPKACCVPTLSAISMLYLDENEKVVLLKNYQDMVVEGCGCR

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2501_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007553

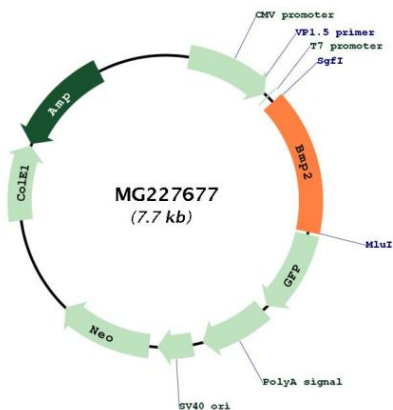
ORF Size: 1182 bp

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:	NM_007553.3
RefSeq Size:	3566 bp
RefSeq ORF:	1185 bp
Locus ID:	12156
UniProt ID:	P21274
Cytogenetics:	2 65.21 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, which plays a role in bone and cartilage development. While a homozygous knockout mouse for this gene exhibits embryonic lethality, conditional knockout mice have defects in bone, cartilage and heart development. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MG227677