

Product datasheet for **MG222932**

Bmp5 (NM_007555) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp5 (NM_007555) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bmp5
Synonyms:	AU023399; se
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222932 representing NM_007555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCATTGGACTGTATTTTACTTAGGGGTATTGTGGGCTTCCTCTGGAGCGGCTGGGTTCAAGTGGGT
 ATGCAAAAGGAGGCTTGGGAGACAATCACGTTCACTCCAGTTTTATTTATAGAAGGCTACGGAACCATGA
 GAGACGGGAAATACAGAGGGAAATTCTGTCTATTTTGGGTTTGCCTCACAGACCCAGGCCCTTTTACCA
 GGGAAACAAGCATCTTCTGCCCCCTCTTTATGCTGGATCTCTACAATGCCATGGCTAGCGAAGACAACC
 CTGAGGAGTATTTGGTGAGGGTGTCCCTGGCTGGAGAGGCCAAAGAGACAAGAAAGGGATACCCAGCCTC
 TCCCAATGGGTATGCGCATCGTCTGCACCTACCACCAAGGACTCCTCTGACTACCCAGAGCCCACCTCTT
 GCCAGCCTACATGATACCAACTTTCTGAATGATGCTGACATGGTCATGAGCTTTGTCACTTAGTTGAAA
 GAGACAAGGACTTTTCTCATCAGAGGAGGCATTACAAAGAGTTTCGGTTTGATCTGACCCAGATTCCACA
 TGGAGAAGCAGTGACAGCAGCAGAATTCGGGATTATAAGGACAAGGGAAACCATCGATTGAAAATGAA
 ACAATTAAGATCAGCATATATCAGATCATCAAGGAATACACAAACAGGGATGCAGATCTTTTCTGCTAG
 ATACGAGGAAGACACAAGCTTTAGATGTGGGCTGGCTTGCTTTGATATCACTGTGACCAGCAACCACTG
 GGTGATTAATCCACAGAACAATTTGGGCTTACAGCTCTGTGCAGAGACGGGGATGGCCGCAGCATCAAT
 GTAAAACTGCTGGTCTTGTGGGAAGACATGGGCTCAGTCAAAACAGCCATTATGGTGGCCTTCTTCA
 AGGCAAGCGAGGTACTTCTTCGATCCGTGAGAGCAGCCAGCAACGGAACCAAAACGCAATAAATC
 CAACTCTCATCAGGACCCCTCCAGGATGCCAGTGCTGGAGATTATAATACCAGTGAACAAAAACAAGCC
 TGCAAGAAGCAGCAACTCTATGTGAGTTCCGAGATCTGGGATGGCAGGACTGGATCATGACCCAGAAG
 GGTATGCTGCATTTTATTGTGACGGGGAATGTTCTTTTCACTTAATGCCCATATGAATGCCACCAACCA
 TGCCATAGTCCAGACCCTGGTACACCTGATGTTTCCAGACCATGTTCCCAAGCCTTGCTGTGCTCCAAAC
 AAATAAATGCCATCTCGGTCCTGTATTTTGTGACAGCTCCAATGTCATTTTAAAAAGTACAGAAATA
 TGGTAGTACGTTCTGTGGCTGCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222932 representing NM_007555
 Red=Cloning site Green=Tags(s)

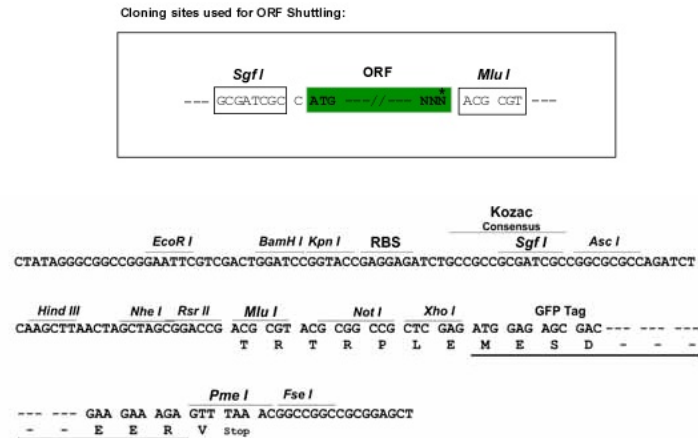
MHWTVFLRGIVGFLWSGWVQVGYAKGGLGDNHVHSSFIYRRLRNHERREIQREILSILGLPHRPRPFS
 GKQASSAPLFMLDLYNAMASEDNPEEYLVRVSLAGEAKETRKGYASPNGYAHRLHLPRTPLTTQSPPL
 ASLHDTNFLNDADMVMSFVNLVERDKDFSHQRRHYKEFRFDLTQIPHGEAVTAAEFRIYKDKGNHRFENE
 TIKISIQIIEKEYTNRDADLFLLDTRKTQALDVGLVFDITVTSNHWVINPQNNLGLQLCAETGDGRSIN
 VKSAGLVGRHGPQSKQPFMVAFFKASEVLLRSVRAASKRKNQNRNKSNSHQDPSRMPSPAGDYNTSEKQQA
 CKKHELIVYVFRDLGWQDWIIAPEGYAAFYCDGECFPLNAHMNATNHAIQTLVHLMFPDHPKPCCAPT
 KLNIAISVLVYFDDSSNVILKKYRNMVVRSCGCH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_007555

ORF Size: 1356 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.

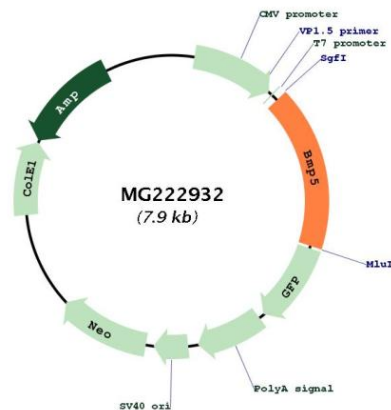
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_007555.1
RefSeq Size:	2528 bp
RefSeq ORF:	1365 bp
Locus ID:	12160
UniProt ID:	P49003
Cytogenetics:	9 42.34 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. Mice with null mutations in this gene exhibit a short ear phenotype, which is characterized by reduced size of the external ear, altered size and shape of the sternum, and other skeletal and soft-tissue abnormalities. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MG222932