

Product datasheet for **MG211396**

Bmp1 (NM_009755) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Bmp1 (NM_009755) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Bmp1 |
| Synonyms: | Pcp; Tld |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG211396 representing NM_009755
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGCGTGGCCCGCCCGCTGCCGCTGCTGTCGCTGCCGCTGCTACTGCTGCTGCTGCTGCTCC
 CGCGCGCCGGCCCGCTGGACTTGGCCGACTACACCTACGACCTGGGGGAGGAGGACGCCCGGAGCT
 CCTCAACTACAAAGACCTTGAAGGCGCTGCCTTCTTGGGGACATTGCCCTGGATGAGGAGGACTTG
 AGGGCCTTCCAGGTGCAGCAGGCTGCAGTTCTCAGACAGCAAACAGCCGAAGGCCATCCATCAAAGCTG
 CAGGAACTCTTCTGCCCTGGTGGTGCAGGGCACTAGTGGACAGCCGAGAGGAAAGCAGGGGCAGATG
 GAGAGGCAGGCCCTCGGAGCAGGCGGGCAGCGACGTCCAGACCGGAGCGGGTGTGGCCGATGGGGTCATC
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 AGAAGCATACCTGTGTCACCTTCTTGGAGCGCACAGATGAGGACAGCTATATTGTATTACCTACCGACC
 CTGCGGGTGTGCTCCTACGTGGTTCGCGAGGTGGGGGCCCCAGGCCATCTCCATCGGAAGAAGTGT
 GACAAGTTTGGCATCGTGGTCCATGAGCTGGGCCATGTATTGGCTTCTGGCACGAGCACAGCGGCCCG
 ACCGGGACCGCCATGTCTCTATTGTACGCGAGAACATACAGCCAGGGCAGGAGTATAACTTCTTGAAGAT
 GGAGGTTCAAGAAGTGGAGTCTTGGGAGAGACCTATGACTTTGACAGTATCATGCACTATGCCCGAAC
 ACATTTCTCAGGGGCATCTTCTTGGACACCATTGTTCCAAGTATGAGGTGAATGGGGTGAAGCCTTCCA
 TTGGCCAAAGGACCCGACTCAGCAAGGGGGACATCGCTCAGGCCCGGAAGCTCTACAAATGCCAGCCTG
 TGGCGAGACCTCCAAGACAGCACTGGCAACTTCTCTCCCTGAGTATCCCAATGGCTACTCTGCCAC
 ATGCACTGTGTATGGCGCATCTGTGCACACTGGGAGAAGATTATTCTAAACTCACATCCATGGACC
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 GACAGTTGTGCCTACGACTACCTGGAAGTCCGTGATGGGCACAGCGAGAGCAGCAACCTATTGGGCGT
 ACTGTGGCTATGAGAAGCCTGATGACATCAAAGCACATCCAGTCCGCTCTGGCTCAAGTTCGTCTCTGA
 CGGTCCATTAACAAAGTGGCTTCGCAGTCAACTTTTTCAAAGAGGTGGATGAGTGTCAAGGCCAAC
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 AGCTGGCCCCAGACAAGGTGCGTGTGAGGCTGCCTGTGGTGGATTCTCACCAGCTCAATGGCTCCAT
 CACCAGCCCCGGTTGGCCAAAGAGTACCCTCCCAACAAAAACTGCATCTGGCAGTTGGTGGCCCCACC
 CAGTACCGTATCTCCCTGCAATTTGACTTCTTCGAGACTGAGGGCAATGATGTGTGCAAGTACGACTTTG
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 GGTCACTACTCCAGTACAACAATATGCGTGTGGAGTTCAAGTCTGACAATACTGTGTCCAAAAAGGGC
 TTCAAGGCCCACTTCTTCTCAGATAAGGATGAATGTTCCAAGGACAATGGTGGATGCCAGCAAGACTGTG
 TGAACACGTTCCGCAGCTACGAGTGTGAGTCCCGCAGTGGCTTCGTCCTCACGACAACAACATGACTG
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 AAGTACCCAGCAAGAAGGAGTGTACGTGGGCTATCTCCAGCACCCCTGGGCACCGGTAAGAGTACTT
 TCGTGGAGATGGATATTGAGTCTCAGCCGAGTGTGCTTATGACCACCTGGAGGTGTTGATGGAGTGA
 TGCCAAGGCACAGTCTTGGACGATTCTGTGGCAGTAAGAAGCCTGAGCCAGTCTGGCTACAGGCAAC
 CGCATGTTCTTGCCTTCTACTCAGACAACTCGGTACAGAGGAAAGGTTTCCAGGCATCCCACTCCACAG
 AGTGTGGGGGCAAGTGCGGGCAGATGTGAAGACCAAAGACCTTTATTCCCATGCCAGTTCGGCGATAA
 CAACTACCCTGGAGGGTGGACTGCGAGTGGTTCATCGTGGCCGAGGAAGGCTATGGCGTGGAGCTGGT
 TTCCAGACCTTCGAGGTGGAGGAGGAGACTGACTGTGGCTATGACTACATAGAGCTCTTTGATGGCTACG
 ACAGCACAGTCCAGACTGGGGCGCTACTGTGGTCTGGGCCTCCCGAGGAAGTACTCGGCTGGAGA
 TTCTGTCTGGTGAAGTTCCACTCTGACGACACCATCTCCAAGAAAGGCTTCCACCTGCGGTACACAAGC
 ACCAAGTTCAGGACACACTCCACAGCAGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211396 representing NM_009755
 Red=Cloning site Green=Tags(s)

MPGVARPLPLLSPLLLLLLLLPRAGRPLDLADYTYDLGEEDAPELLNYKDPCKAAAFLGDIALDEEDL
 RAFVQVQAAVLRQQTARRPSIKAAGNSSALGGQTSQGPQRESRGRWRGRPRRRAATSRPERVWPDGVI
 PFVIGGNFTGSQRAVFRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNC
 DKFGIVVHELGHVIGFWHEHTRPDRDRHVSIVRENIQPGQEYNFLKMEVQEVESLGETYDFDSIMHYARN
 TFSRGIFLDTIVPKYEVNGVKPSIGQRTRL SKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAH
 MHCVWRISVTPGEKIILNFTSMDLYRSRLCWYDYVEVRDGFWRKAPLRGRFCGGKLPPEIVSTDSRLWE
 FRSSSNWVGKGFVAYEAIICGGDVKKDNHGIQSPNYPDDYRPSKVCIWRIQVSEGFHVGLTFQSFEIERH
 DSCAYDYLEVDRGHSESSNLIGRYCYEKPDDIKSTSSRLWLFVSDGSINKAGFAVNFKEVDECSRPN
 RGGCEQRCLNTLSYKCSCDPGYELAPDKRCEAACGGFLTKLNGSITSPGWPKEYPPNKNCIWQLVAPT
 QYRISLQDFDFETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVITSQYNNMRVEFKSDNTVSKKG
 FKAHFFSDKDECKDNGGCQDCVNTFGSYECQCRSGFVLHDNKHDCKEAGCEHKVTSTSGTITSPNWPD
 KYPSKKECTWAISSTPGHRVKLTFVEMDIESQPECAYDHLVFDGRDAKAPVLGRFCGSKKPEPVLATGN
 RMFLRFYSDNSVQRKGFQASHSTECGGQVRADVKTKDLYSHAQFGDNNYPGGVDCWEVIVAEEGYVELV
 FQTFEVEEETDCGYDYIELFDGYDSTAPRLGRYCGSGPPEEVYSAGDSVLVKFHSDDTISKKGHFLRYTS
 TKFQDTLHSRK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

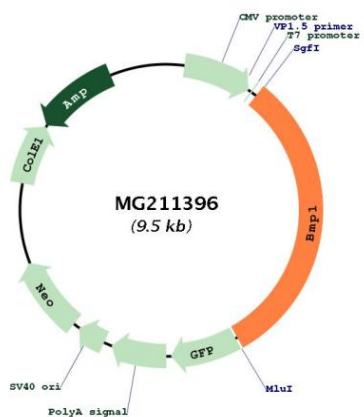


ACCN: NM_009755

ORF Size: 2973 bp

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|-------------------------------|---|
| 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_009755.3 , NP_033885.2 |
| RefSeq Size: | 3769 bp |
| RefSeq ORF: | 2976 bp |
| Locus ID: | 12153 |
| UniProt ID: | P98063 |
| Cytogenetics: | 14 36.32 cM |
| Gene Summary: | This gene encodes a metalloproteinase that plays an essential role in the formation of the extracellular matrix and is also able to induce ectopic bone formation. Unlike other bone morphogenetic proteins, the protein encoded by this gene is not closely related to transforming growth factor-beta. This protein plays in role several developmental processes. In humans, mutations in this gene are associated with osteogenesis imperfecta and with increased bone mineral density and multiple recurrent fractures. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013] |

Product images:



Circular map for MG211396