

Product datasheet for MR211396

Bmp1 (NM_009755) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp1 (NM_009755) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bmp1
Synonyms:	Pcp; Tld
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211396 representing NM_009755 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCGTGGCCCGCCGCGCTGCCGCTGCTGTCGCTGCCGCTGCTACTGCTGCTGCTGCTGCTCC
CGCGCGCCCGCCGCGCTGGACTTGGCCGACTACACCTACGACCTGGCGAGGAGGACGCCCGGAGCT
CCTCAACTACAAAGACCTTGAAGGCGCTGCCTTCTTGGGGACATTGCCCTGGATGAGGAGGACTTG
AGGGCCTTCCAGGTGCAGCAGGCTGCAGTTCAGACAGCAAACAGCCGAAGGCCATCCATCAAAGCTG
CAGGAACTCTTCTGCCCTGGTGGTGCAGGCACTAGTGGACAGCCGAGAGGAAAGCAGGGGCAGATG
GAGAGGCAGGCCCTCGGAGCAGGCCGGCAGCGACGTCAGACCCGAGCGGGTGTGGCCGATGGGGTCATC
CCGTTTGTGATTGGAGGGAATTTACCCGCGAGCCAGAGGGCAGTCTTCCGCGAGGCCATGAGACACTGGG
AGAAGCATACCTGTGTCACCTTCTTGGAGCGCACAGATGAGGACAGCTATATTGTATTACCTACCGACC
CTGCGGGTGTGCTCCTACGTGGTTCGCGAGGTGGGGCCCCAGGCCATCTCCATCGGCAAGAAGTGT
GACAAGTTTGGCATCGTGGTCCATGAGCTGGGCCATGTCATTGGCTTCTGGCAGCAGCACACGCGGCCCG
ACCGGGACCGCCATGTCTCTATTGTACGCGAGAACATACAGCCAGGCCAGGAGTAACTTCTTGAAGAT
GGAGTTCAAGAAGTGGAGTCTTGGGAGAGACCTATGACTTTGACAGTATCATGCACTATGCCCGGAAC
ACATTTCCAGGGCATCTTCTTGGACACCATTTCCCAAGTATGAGGTGAATGGGTGAAGCCCTTCCA
TTGGCCAAAGGACCCGACTCAGCAAGGGGACATCGCTCAGGCCGGAAGCTCTACAAATGCCAGGCTG
TGGCGAGACCCTCCAAGACAGCACTGGCAACTTCTCTCCCTGAGTATCCCAATGGCTACTCTGCCAC
ATGCACTGTGTATGGCGATCTCTGTCACACCTGGGAGAAAGATTATTCTAAACTTACATCCATGGACC
TGTACCGTAGCCGCTGTGCTGGTATGACTATGTGGAGGTGCGGGATGGCTTCTGGAGAAAGCGCCCT
CCGAGGCCGTTCTGTGGGGCAAACCTCCCGAGCCCATCGTCTCACCAGACAGCCGCTCTGGGTGAA
TTCCGAAGCAGCAGCAACTGGGTGAAAGGGCTTCTTTGCTGTCTATGAAGCCATTTGCGGTGGCGATG
TGAAAAAGGATAATGGCCATATCCAGTCTCCAATTACCCAGACGATTATCGGCCAGCAAAGTCTGCAT
CTGGCGGATCCAGGTGTCTGAGGTTTCCAGTGGGCTCACGTTCCAGTCTTTGAGATTGAGCGTCAC



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GACAGTTGTGCCTACGACTACCTGGAAGTCCGTGATGGGCACAGCGAGAGCAGCAACCTCATTGGGCGCT
 ACTGTGGCTATGAGAAGCCTGATGACATCAAAGCACATCCAGTCGGCTCTGGCTCAAGTTCGTCTCTGA
 CGGGTCCATTAACAAAGCTGGCTTCGCAGTCAACTTTTTCAAAGAGGTGGATGAGTGTTCAGGCCAAC
 CGCGGGGGCTGTGAGCAGCGGTGCCTGAACACCCTGGGCAGCTACAAGTGCAGCTGTGACCCTGGCTATG
 AGCTGGCCCCAGACAAGCGTCGGTGTGAGGCTGCCTGTGGTGGATTCTCACCAAGCTCAATGGCTCCAT
 CACCAGCCCCGGTTGGCCAAAGAGTACCCTCCAACAAAACTGCATCTGGCAGTTGGTGGCCCCCACC
 CAGTACCCTATCTCCCTGCAATTTGACTTCTTCGAGACTGAGGGCAATGATGTGTGCAAGTACGACTTTG
 TGGAGGTGCGCAGCGGACTCACGGCGGACTCTAAGCTGCATGGCAAGTTCTGCGGCTCCGAGAAGCCAGA
 GGTCACTACTTCCAGTACAACAATATGCGTGTGGAGTTCAAGTCTGACAATACTGTGTCCAAAAAGGGC
 TTCAAGGCCACTTCTTCTCAGATAAGGATGAATGTTCCAAGGACAATGGTGGATGCCAGCAAGACTGTG
 TGAACACGTTTCGGCAGCTACGAGTGTGAGTGCAGTCCAGTGGCTTCGTCTTACGACAACAAACATGACTG
 TAAAGAAGCTGGCTGTGAACACAAGGTGACATCCACCAGTGGCACCATCACCAGCCCCAAGTGGCCTGAC
 AAGTACCCAGCAAGAAGGAGTGTACGTGGGCTATCTCCAGCACCCCTGGGCACCGGGTAAAGCTGACTT
 TCGTGGAGATGGATATTGAGTCTCAGCCGAGTGTGCTTATGACCACCTGGAGGTGTTTCGATGGACGTGA
 TGCCAAGGCACCAGTCTTGGACGATTCTGTGGCAGTAAAGACCTGAGCCAGTCTGGCTACAGGCAAC
 CGCATGTTCTTGGCTTCTACTCAGACAACCTCGGTACAGAGGAAAGGTTTCCAGGCATCCCACTCCACAG
 AGTGTGGGGGCCAAGTGCGGGCAGATGTGAAGACCAAGACCTTTATTCCATGCCAGTTCGGCGATAA
 CAACTACCCTGGAGGGTGGACTGCGAGTGGGTGATCGTGGCCGAGGAAGGCTATGGCGTGGAGCTGGT
 TTCCAGACCTTCGAGGTGGAGGAGGAGACTGACTGTGGCTATGACTACATAGAGCTCTTTGATGGCTACG
 ACAGCACAGCTCCAGACTGGGGCGCTACTGTGGTTCGGGCCTCCCGAGGAAGTGTACTCGGCTGGAGA
 TTCTGTCTGGTGAAGTCCACTCTGACGACACCATCTCAAGAAAGGCTTCCACCTGCGGTACACAAGC
 ACCAAGTCCAGGACACACTCCACAGCAGGAAG

ACGCGTACGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211396 representing NM_009755
 Red=Cloning site Green=Tags(s)

MPGVARPLPLLSLPLLLLLLLPRAGRPLDLADYTYDLGEEDAPELLNYKDPCKAAAFGLDIALDEEDL
 RAFVQQAQAVLRQQTARRPSIKAAGNSSALGGQTSQGPQRESRGRWRGRPRRRAATS RPERVWPDGVI
 PFVIGGNFTGSQRAVFRQAMRHWEKHTCVTFLERTDEDSYIVFTYRPGCCSYVGRGGGPQAISIGKNC
 DKFGIVVHELGHVIGFWHEHTRPDRDRHVSIVRENIQPGQEYNFLKMEVQEVEESLGETYDFDSIMHYARN
 TFSRGIPLDITVPKYEVNGVKPSIGQRTRL SKGDIAQARKLYKCPACGETLQDSTGNFSSPEYPNGYSAH
 MHCVWRISVTPGEKIIILNFTSMDLYRSRLCWYDYVEVRDGFWRKAPLRGRFCGGKLEPIVSTDSRLWE
 FRSSSNWVGKGFVAVYEAI CGGDVKKDNGHIQSPNYPDDYRPSKVICIWRIQVSEGFHVGLTFQSFIEIRH
 DSCAYDYLEVRDGHSESSNLIGRYCGYEKPDIDKSTSSRLWLFVSDGSINKAGFAVNFKEVDECSRPN
 RGGCEQRCLNTLGSYKSCDPGYELAPDKRRCEAACGGFLTKLNGSITSPGWPKEYPPNKNCIWQLVAPT
 QYRISLQDFDFETEGNDVCKYDFVEVRSGLTADSKLHGKFCGSEKPEVITSQYNNMRVEFKSDNTVSKKG
 FKAHFFSKDECSKDNNGCQDCVNTFGSYECQCRSGFVLHDNKHDCKEAGCEHKVTSTSGTITSPNWP
 KYPSKKECTWAISSTPGHRVKLTFVEMDIESQPECAVDHLEVFDRDAKAPVLRFCGSKKPEPVLATGN
 RMFLRFYSDNSVQRKGFQASHSTECGGQVRADVKTKDLYSHAQFGDNNYPGGVDCEWVIVAEEGYVELV
 FQTFEVEEETDCGYDYIELFDGYDSTAPRLGRYCGSGPPEEVYSAGDSVLVKFHSDDTISKKGHFLRYTS
 TKFQDTLHSRK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9032_h05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009755

ORF Size: 2973 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:**
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](#)

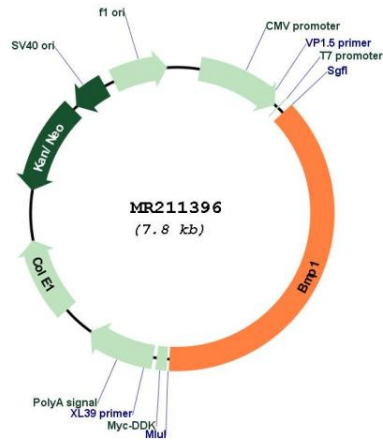
RefSeq Size: 3769 bp

RefSeq ORF: 2976 bp

Locus ID: 12153
UniProt ID: [P98063](#)
Cytogenetics: 14 36.32 cM
MW: 112.1 kDa

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 MR211396