

Product datasheet for MR206120

Bmp15 (NM_009757) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmp15 (NM_009757) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bmp15
Synonyms:	AU015375; AU018861; AU021453; Bmp-1; Bmp-15; C86824; C87336; GDF-9B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206120 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTTCTCACAATTCTTAGAATTCTTTGTGGGGAGTGGTCTTTTATGGAACAGAGGGTCCAAA
TGGCAAAGCCAGGGTGGCCCTCCACCGCCCTCCTTGCTGACGACCCTACATTGCCCTCAATTTGGATCT
GGCAAAGAAGCCCTGGCAAGGAGATGAAGCAATGGCCCAAGGCTATCCCTGAGGTACATGCTCAAG
TTATACCATCGTTCGGCTGACCCGCATGGCCATCAAGGGAGAACCGCACGATTGGAGCGAAAATGGTGA
GGCTGGTAAAGCCGTCGGCCAACACAGTAAGGCCTCCAGAGGTTCTGGCATGTACAGACCCTGGACTT
TCCTCTAGCATCAAACAGGTAGCGTACGAACTAATCAGAGCCACTGTGGTTTACCGCCATCAACTTCAT
CTAGTTAATTACCATCTCTCCTGCCATGTGAAACTTGGGTTCCCTAAATGCCGACCAAGCACTTACCTT
CTTCTAAATCGGGTTCCTCAAAGCCTTCTCCCATGTCTAAAGCCTGGACAGAGATAGATATTACACATTG
TATTCAGCAGAAGCTCTGGAATCGCAAGGGACGGAGTGTCTTCGCTCCGCTTCATGTGTCAGCAGCAA
AAAGGCAATGAGACTCGTGAGTTCGGTGGCATGGCATGACATCCTTGGATGTTGCCTTCTTGCTACTCT
ATTTCAATGACACCGATGACAGAGTTCAGGGTAAACTTCTTGAAGAGGCCAAGAGGAGTAACTGATAG
GGAATCTTCTTTCTCATGCGGAGTGTCCGGCAAGCATGCAGCATTGAATCTGATGCCTCTTGCTCTTCT
CAGGAACATGATGGTCTGTAAATAACCAAGTGTCCCTCCATCTTACAAGGTCAGCTTCCACCAACTAG
GCTGGGATCACTGGATCATTGCTCCTCGTCTATACCCCAAATTAAGGAACTGTACTCGGGT
ATTACCCTATGGTCTCAATTCACCAACCATGCCATCATTAGAGCCTTGTCAATGAACTAGTGAATCAC
AGTGTACCTCAGCCTTCTGTGCCCTTATAATTTCTTCTATGAGCATCCTCCTGATTGAGACCAACG
GGAGTATCTGTACAAGGAGTATGAGGGTATGATTGCCAGTCTGTACATGTAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206120 protein sequence
 Red=Cloning site Green=Tags(s)

MALLTILRILLWGVVLFMEQRVQMAKPGWPSTALLADDPTLPSILDLAKEAPGKEMKQWPQGYPLRYMLK
 LYHRSAADPHGHPRENRTIGAKMVRVLKPSANTVRPPRGSWHVQTLDFPLASNQVAYELIRATVVYRHQLH
 LVNYHLSCHVETWVPKCRTHLPSKSGSKSPSPMSKAWTEIDI THCIQQKLWNRKGRSVLRLRFMCQQQ
 KGNETREFRWHGMTSLDVAFLLLYFNDDDRVQGKLLARGQEELTDRESSFLMRSVRQACSIESDASCPS
 QEHDGSVNNQCSLHPYKVSFHQLGWDHWIAPRLYTPNYCKGICTRVLPYGLNSPNHAI IQSLVNELVNH
 SVPQPSCVPYNFLPMSILLIETNGSILYKEYEGMIAQSCTCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009757

ORF Size: 1179 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_009757.3](#), [NP_033887.1](#)

RefSeq Size: 3086 bp

RefSeq ORF: 1179 bp

Locus ID: 12155

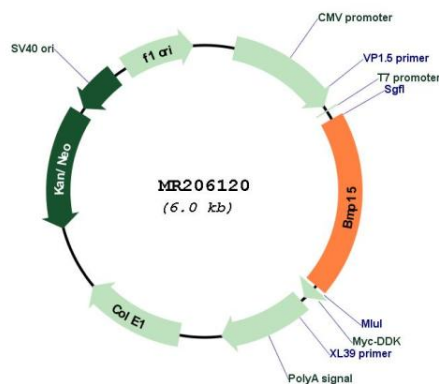
UniProt ID: [Q9Z0L4](#)

Cytogenetics: X 2.81 cM

MW: 44.9 kDa

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 subunits of a disulfide-linked homodimer, or alternatively, a heterodimer, with the related protein, growth differentiation factor 9 (GDF9). This protein plays a role in oocyte maturation and follicular development, through activation of granulosa cells. Female mice lacking a functional copy of this gene exhibit impaired fertility. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR206120