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Product datasheet for RC219562

BMP15 (NM_005448) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMP15 (NM_005448) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BMP15
Synonyms:	GDF9B; ODG2; POF4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219562 representing NM_005448
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCTCCTCAGTATTCTTAGAATTCTTTTTCTTTGTGAACTCGTGCTTTTCATGGAACACAGGGCCC
AAATGGCAGAAGGAGGGCAGTCCTCTATTGCCCTTCTGGCTGAGGCCCCTACTTTGCCCCTGATTGAGGA
GCTGCTAGAAGAATCCCCTGGCGAACAGCCAAGGAAGCCCCGGCTCCTAGGGCATTCACTGCGGTACATG
CTGGAGTTGTACCGGCGTTCAGCTGACTCGCATGGGCACCCTAGAGAGAACCGCACCATTGGGGCCACCA
TGGTGAGGCTGGTGAAGCCCTTGACCAATGTGGCAAGGCCTCACAGAGGTACCTGGCATATACAGATCCT
GGGCTTTCCTCTCAGACCAAACCGAGGACTATACCAACTAGTTAGAGCCACTGTGGTTTACCGCCATCAT
CTCCAACTAACTCGCTTCAATCTCTCCTGCCATGTGGAGCCCTGGGTGCAGAAAAACCCAACCAACCACT
TCCCTTCCTCAGAAGGAGATTCCTCAAAACCTTCCCTGATGTCTAACGCTTGGAAAGAGATGGATATCAC
ACAACTTGTTCAGCAAAGGTTCTGGAATAACAAGGGACACAGGATCCTACGACTCCGTTTTATGTGTCAG
CAGCAAAAAGATAGTGGTGGTCTTGAGCTCTGGCATGGCACTTCATCCTTGGACATTGCCTTCTTGTTAC
TCTATTTCAATGATACTCATAAAAGCATTCGGAAGGCTAAATTTCTTCCCAGGGGCATGGAGGAGTTCAT
GGAAAGGGAATCTCTTCTCCGGAGAACCCGACAAGCAGATGGTATCTCAGCTGAGGTTACTGCCTCTTCC
TCAAAACATAGCGGGCCTGAAAATAACCAGTGTTCCCTCCACCCTTTCCAAATCAGCTTCCGCCAGCTGG
GTTGGGATCACTGGATCATTGCTCCCCCTTTCTACACCCCAAACTACTGTAAAGGAACTTGTCTCCGAGT
ACTACGCGATGGTCTCAATTCCCCCAATCACGCCATTATTCAGAACCTTATCAATCAGTTGGTGGACCAG
AGTGTCCCCCGGCCCTCCTGTGTCCCGTATAAGTATGTTCCAATTAGTGTCCTTATGATTGAGGCAAATG
GGAGTATTTTGTACAAGGAGTATGAGGGTATGATTGCTGAGTCTTGTACATGCAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC219562 representing NM_005448
Red=Cloning site Green=Tags(s)

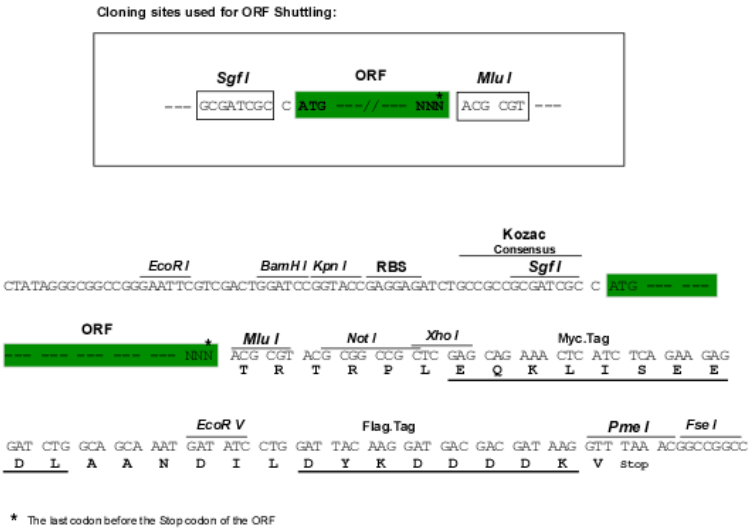
MVLLSILRILFLCELVLFMEHRAQMAEGGQSSIALLAEAPTLPLIEELLEESPGEQPRKPRLLGHSLRYM
LELYRRSADSHGHPRENRTIGATMVRLVKPLTNVARPHRGTWHIQILGFPLRPNRGLYQLVRATVVYRHH
LQLTRFNLSCHVEPWVQKNPTNHFPSSEGDSSKPSLMSNAWKEMDITQLVQQRFWNNKGHRILRLRFMCQ
QQKDSGGLELWHGTSSLDIAFLLLYFNDTHKSIRKAKFLPRGMEEFMERESLLRRTRQADGISAEVTASS
SKHSGPENNQCSLHPFQISFRQLGWDHWIIAPPFYTPNYCKGTCLRVLRDGLNSPNHAIIQNLINQLVDQ
SVPRPSCVPYKYVPISVLMIEANGSILYKEYEGMIAESCTCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6767_e04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005448

ORF Size: 1176 bp

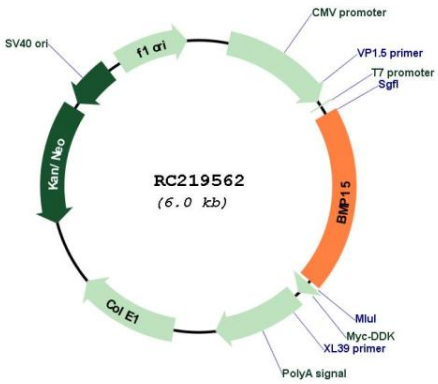
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

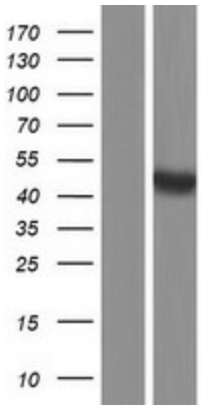
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_005448.2
RefSeq Size:	1179 bp
RefSeq ORF:	1179 bp
Locus ID:	9210
UniProt ID:	O95972
Cytogenetics:	Xp11.22
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway
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. Defects in this gene are the cause of ovarian dysgenesis and are associated with premature ovarian failure. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RC219562



Western blot validation of overexpression lysate (Cat# [LY417289]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219562 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).