

Product datasheet for **MR208067**

Bmpr1b (NM_007560) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmpr1b (NM_007560) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bmpr1b
Synonyms:	Acv; Acvrlk6; AI385617; AI; ALK-6; Alk6; AV355320; BMPR; BMPR-1B; BMPR-IB; CFK-43; CFK-43a; SKR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208067 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCTTACGAAGCTCTGGAAAATTAATGTGGCACCAGAAGGAGGATGGAGAGAGTACAGCCCCCA
 CCCTCGGCCAAGATCCTACGTTGTAATGCCACCACCACTGTCGGAAGACTCAGTCAACAATATCTG
 CAGCACAGATGGTACTGCTTACGATGATAGAAGAAGATGACTCTGGAATGCCTGTTGTACCTCTGGA
 TGTCTAGGACTAGAAGGGTCAGATTTTCAATGTCGTGACACTCCCATTCTCATCAAAGAAGATCAATTG
 AATGCTGCACAGAAAGGAATGAGTGAATAAAGACCTCCACCCACTCTGCCTCTCTCAAGGACAGAGA
 TTTTGTGATGGGCCATACACCACAAGGCCTTGCTTATCTGTGACTGTCTGTAGTTACTCTTGGTC
 CTCATTATTTTATTCTGTACTTACAGGTATAAAGACAAGAAGCCCGACCTCGGTACAGCATTGGGCTGG
 AGCAGGACGAGACATACATTCTCTGGAGAGTCCCTGAGAGACTTGATCGAGCAGTCTCAGAGCTCGGG
 AAGTGGATCAGGCCTCCCTCTGCTGGTCCAAGGACAATAGCTAAGCAAATTCAGATGGTGAAGCAGATT
 GGAAAAGCCCGCTATGGCGAGGTGGATGGGAAAGTGGCGTGGAGAAAAGGTGGCTGTGAAAGTGTCT
 TACCACGGAGGAAGCCAGCTGGTTCGAGAGACTGAGATATATCAGACGGTCTGATGCCGCATGAGAA
 TATTCTGGGGTTCATTGCTGCAGATATCAAAGGGACTGGTCTGGACTCAGTTGTACCTCATCACAGAC
 TATCATGAAAACGGCTCCCTTTATGACTATCTGAAATCCACCACCTTAGACGCAAAGTCCATGCTGAAGC
 TAGCCTACTCCTGTGACGCGCCTATGCCATTTACACACGGAATCTTTAGCACTCAAGGCAAGCCAGC
 AATCGCCATCGAGACTTGAAGTAAAAACATCCTGGTGAAGAAAAATGGAAGTGTGTCATAGCAGAC
 CTGGGCTTGGCTGTCAAGTTCATTAGTGACACAAATGAGGTTGACATCCCACCAACACCCGGGTGGCA
 CCAAGCGCTATATGCCTCCAGAAGTCTGGACGAGAGCTTGAATAGAAACCATTTCCAGTCTACATTAT
 GGCTGACATGTACAGCTTTGGACTCATCCTCTGGGAGATTGCAAGGAGATGTGTTTCTGGAGGTATAGTG
 GAAGAATACCAGCTTCCCTATCACGACCTGGTGCCAGTGACCCTTCTTATGAGGACATGAGAGAAATTG
 TGTGCATGAAGAAGTTACGGCCTTATTCCCAATCGATGGAGCAGTGATGAGTGTCTCAGGAGATGGG
 GAAGCTTATGACAGAGTCTGGGCGCAGAATCCTGCCTCCAGGCTGACGGCCTGAGAGTTAAGAAAACC
 CTTGCCAAAATGTCAGAGTCCCAGGACATTAAACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208067 protein sequence
 Red=Cloning site Green=Tags(s)

MLLRSSGKLNVTGKEDGESTAPTPRPKILRCKHHCPEDSVNNICSTDGYCFMIEEDDSGMPVVTSG
 CLGLEGSDFQCRDTPIPHQRRIECCTERNECNKDLHPTLPPLKDRDFVDGPIHHKALLISVTVCSLLLV
 LIILFCYFRYKRQEARPRYSIGLEQDETYIPGESLRDLIEQSQSSGSGSGLPLLQRTIAKQIQMVKQI
 GKGRYGEVWMGKWRGEKVAVKVFFTTEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITD
 YHENGSLYDYLKSTTLDAKSMKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGTCCIA
 LGLAVKFI SDTNEVDIPPNTRVGKRYMPPEVLDESLNRNHFQSYIMADMYSFGLILWEIARRCVSGGIV
 EEYQLPYHDLVPSDPYEDMREIVCMKKLRPSFNRWSSDECLRQMGKLMTECWAQNPASRLTALRVKKT
 LAKMSESQDIKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_007560

ORF Size: 1509 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_007560.4](#), [NP_031586.1](#)

RefSeq Size: 5376 bp

RefSeq ORF: 1509 bp

Locus ID: 12167

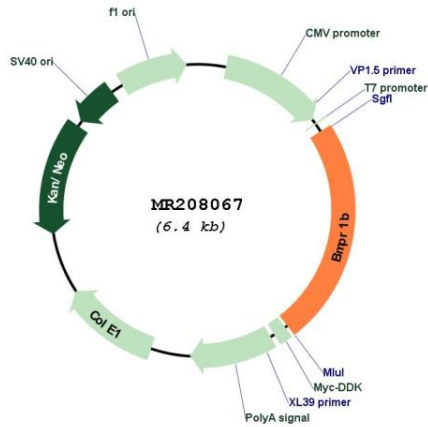
UniProt ID: [P36898](#)

Cytogenetics: 3 H1

MW: 56.9 kDa

Gene Summary: This gene encodes a serine/threonine kinase that functions as a receptor for bone morphogenetic proteins (BMPs). The encoded protein is a type I receptor, and forms a complex of two type II and two type I receptors at the cell membrane. This complex signals downstream to activate SMAD transcriptional regulators. This signaling is important in skeletal and bone development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MR208067