

Product datasheet for **MR230201**

Bmpr1b (NM_001277220) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmpr1b (NM_001277220) 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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>MR230201 representing NM_001277220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGCACCAAGAAGGAGGATGGAGAGAGTACAGCCCCACCCTCGGCCAAGATCCTACGTTGTAA
 ATGCCACCACCACTGTCCGGAAGACTCAGTCAACAATATCTGCAGATGGGTAAGTCTCAGCATGATAGA
 AGAAGATGACTCTGGAATGCCTGTTGTACCTCTGGATGTCTAGGACTAGAAGGGTCAGATTTTCAATGT
 CGTGACACTCCCATTCTCATCAAAGAAGATCAATTGAATGCTGCACAGAAAGGAATGAGTGAATAAAG
 ACCTCCACCCCACTCTGCCTCCTCTCAAGGACAGAGATTTTGTGATGGGCCATACACCACAAGGCCTT
 GCTTATCTCTGTGACTGTCTGTAGTTTACTCTTGGTCCTCATTATTTTATTCTGTACTTACAGGTATAAA
 AGACAAGAAGCCGACCTCGGTACAGCATTGGGCTGGAGCAGGACGAGACATACATTCTCTGGAGAGT
 CCCTGAGAGACTTGATCGAGCAGTCTCAGAGCTCGGGAAGTGGATCAGGCCTCCCTCTGCTGGTCCAAG
 GACAATAGCTAAGCAAATTCAGATGGTGAAGCAGATTGAAAAGGCCGCTATGGCGAGGTGTGGATGGGA
 AAGTGGCGTGGAGAAAAGGTGGCTGTGAAAGTGTCTTACCACGGAGGAAGCCAGCTGGTCCGAGAGA
 CTGAGATATATCAGACGGTCTGATGCGGCATGAGAATATTCTGGGGTTCATTGCTGCAGATATCAAAGG
 GACTGGGTCTGGACTCAGTTGTACCTCATCACAGACTATCATGAAAACGGCTCCCTTTATGACTATCTG
 AAATCCACCACCTTAGACGCAAAGTCCATGCTGAAGCTAGCCTACTCCTCTGTCAGCGGCCTATGCCATT
 TACACACGGAAATCTTTAGCACTCAAGGCAAGCCAGCAATCGCCCATCGAGACTTAAAAGTAAAAACAT
 CCTGGTGAAGAAAAATGGAATGCTGCATAGCAGACCTGGGCTTGGCTGCAAGTTCATTAGTGACACA
 AATGAGGTTGACATCCCACCAACCCCGGTTGGCACCAGCGTATATGCCTCAGAAGTGTGGAGC
 AGAGCTGAATAGAAACATTTCCAGTCTACATTATGGCTGACATGTACAGCTTTGGACTCATCCTCTG
 GGAGATTGCAAGGAGATGTGTTTCTGGAGGTATAGTGAAGAATACCAGCTTCCCTATCACGACCTGGTG
 CCCAGTGACCTTCTTATGAGGACATGAGAGAAATTTGTGTGCATGAAGAAGTTACGGCCTTCATTCCCCA
 ATCGATGGAGCAGTGATGAGTGTCTCAGGCAGATGGGGAAGCTTATGACAGAGTGTGGCGCAGAAATCC
 TGCTCCAGGCTGACGGCCCTGAGAGTTAAGAAAACCTTGCCAAAATGTCAGAGTCCCAGGACATTAA
 CTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230201 representing NM_001277220
 Red=Cloning site Green=Tags(s)

MWAPRRRMERVQPPPLGPRSYVNVNATTTVRKTQSTISADGYCFMTIEEDDSGMPVVTSGCLGLEGSDFQC
 RDTPIPHQRRSIECCTERNECNKDLHPTLPPLKDRDFVDGPIHHKALLISVTVCSLLLVLIILFCYFRYK
 RQEARPRYSIGLEQDETYIPPGESLRDLIEQSQSSGSGSGLPLLQRTIAKQIQMVKQIGKGRYGEVWVG
 KWRGEKVAVKVFVFTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDYL
 KSTTLDAKSMKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGTCCADLGLAVKFI SDT
 NEVDIPPNTRVGTRKRYMPPEVLDESLNRNHQSYIMADMYSFGLILWEIARRCVSGGIVEEYQLPYHDLV
 PSDPSYEDMREIVCMKKLRPSFPNRWSSDECLRQMGKLMTECWAQNPASRLTALRVKKTAKMSESQDIK
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

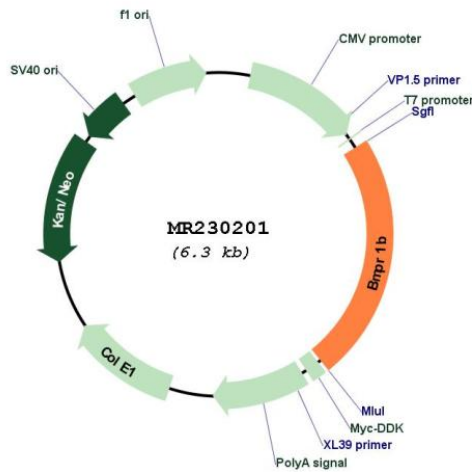
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001277220
ORF Size:	1473 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:	<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_001277220.1 , NP_001264149.1
RefSeq Size:	5357 bp
RefSeq ORF:	1476 bp
Locus ID:	12167
UniProt ID:	P36898
Cytogenetics:	3 H1
MW:	56.3 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]