

Product datasheet for RR217433

Bmpr2 (NM_080407) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmpr2 (NM_080407) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bmpr2
Synonyms:	Bmpr-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR217433 representing NM_080407 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGACTTCCTCGCTGCAGCGGCCCTTTTCGGGTGCCCTGGCTGTTATGGGCCGTCCTGCTGGTCAGCACTA
CGGCTGCTTCCCAGAATCAAGAACGGCTGTGTGCATTTAAAGACCCGATCAACAAGACCTTGGGATTGG
TGAGAGTCGAATCTCTCATGAAATGGGACAATATTATGCTCAAAGGGAGCACATGTTATGGTCTGTGG
GAGAAATCAAAGGGGACATCAATCTTGTGAAACAAGGGTCTGGTCTCACATTGGTATCCCAAGAGT
GCCACTATGAAGAATGTGTAGTAACACCACCCACCCTCAATTCAGAATGGAACATACCGTTTTTGTCTG
CTGTAGTACAGACTTATGTAACGTCAACTTCACAGAACTTCCACCTCCTGATACAACACCACCTCAGT
CCGCCTCATTCTAATCGGGATGAACTATAATCATTGCTTTGGCATCGGTTTCTGTATTAGCTGTTT
TGATAGTCGCCTTATGTTTTGGATACAGAATGTTGACAGGAGACAGGAAACAGGGTCTACACAGTGTGAG
CATGATGGAGGCGGCAGCGGCAGAGCCCTCCCTGGACTTGGATAACCTGAAGCTGCTGGAGCTGATTGGA
CGGGGTCGATATGGAGCAGTATAAAAGGTTCCCTGGATGAGCGTCCAGTTGCTGTAAGTATTTTCTT
TTGCAAACCGTCAGAATTTATAAATGAAAAAACATTTACAGAGTGCCTTTGATGGAACATGACAACAT
TGCTCGCTTTATAGTTGGAGACGAGAGGCTCACTGCAGATGGACGCATGGAGTATTTGCTGTGATGGAG
TATTATCCCAATGGATCTCTGTGCAAAATCTGAGTCTCCATAACAAGTATTGGTAAGCTTTGCCGTC
TGGCTCATTCTGTGACAAGAGGACTGGCTTATCTTCACACAGAATTACCCGAGGAGATCATTACAAACC
TGCAATTTCCCATCGAGATTTAAACAGCAGAAATGTCCTGGTAAAGAATGGTGGCACGTGTGTTATCAGT
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TAAGTGAGGTTGGCACAATCCGCTATATGGCACCAGAAGTCTAGAAAGGAGCTGTGAACCTGAGGGACTG
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CCACATTTGAGGATATGCAGGTTCTTGTGTCAAGAGAAAAGCAGAGACCCAAGTTCCAGAAAGCCTGGAA
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CGGCTCACTGCACAGTGTGCTGAGGAGAGAATGGCTGAACTCATGATGATATGGGAGAGAAAAGTCTG
 TGAGCCCAACGGTCAACCCAATGTGCACTGCTATGCAGAACGAACGCAACCTATCACATAATAGGCGTGT
 GCCAAAAATCGGGCCTTACCCAGATTATTCCTCTTCTCATATATTGAAGACTCAATTCACACTGAC
 AGCATTGTGAAAAATATTCCTCTGAGCATTCAATGTCCAGCACACCGTTGACAAATAGGAGAAAAGAACC
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 CACAGGCTGCAAAATGGGCAAGCATGTTAATTCCTGATGTCCACCTGCTCAGCTCTATCCTCTCCCTAA
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 GAGCACAGAGGCCAATCTCTGGATCTTTCAGCCACAATACTCTGGATGGCAGCAGCATGCAGATAGG
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 CTTAAGCGGTGGCGCCATCCACCTGGGTATCTCCACCGAGCCACTGGACTGTGAGGTCAACAACAATG
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 CATGGTGTCTAAAGATATAGGAATGAATTGTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217433 representing NM_080407
 Red=Cloning site Green=Tags(s)

MTSSLQRPFRVPLWVAVLLVSTTAASQNRQLCAFKDPYQDLGIGESRISHENGTILCSKGSTCYGLW
 EKSKGDINLVKQGCWSHIGDPQECHYEVCVTTTTPPSIQNGTYRFCCCSTDL CNVNFTENFPPTDTPLS
 PPHSSNRDETI IIALASVSVLAVLIVALCFGYRMLTGDRKQGLHSVSMMEAAAAEPLDLNLKLELIG
 RGRYGAVYKGS LDERPVAVKVSFANRQNFINEKNIYRVPLMEHDNIARFIVGDERLTADGRMEYLLVME
 YYPNGSLCKYLSLHTSDWVSSCRLAHSVTRGLAYLHTELP RGDHYKPAISHRDLNSRNLVKNNGTCVIS
 DFGLSMRLTGNRLVRPGEEDNAAISEVGTIRYMAPEVLEGA VNLRDCE SALKQVDMYALGLIYWEVFMRC
 TDLFPGESVPDYQMAFQTEVGNHPTFEDMQVLVSREKQRPKFP EAWKENS LAVRSLKETIEDCWDQDAEA
 RLTAQCAEERMAELMMIWERKSVSPTVNPMTAMQNERNL SHNRRVPKIGPYPDYSSSSYIEDSIHHTD
 SIVKNISSEHMSSTPLTIGEKNRNSINERQQAQARIPSPETS VTSLSLSTNTTTNTSGLTPSTGMTTIS
 EMPYPDETHLHATNVAQSLGPTPVCLQLTEEDLETNKLDPK EVDKNLKESSDENLMEHSLKQFSGPDPLS
 STSSLLYPLIKLAVEVTGQDFQAANGQAQLIPDVPPAQLYPLPKQQNL PKRPTSLPLNTKNSTKEPR
 LKFGNKHKSNLKQVETGVAKMNTINAAEPHVVTVMNGVAGRSHNVN SHAATTQYANGVVP SGQAANIVA
 HRAQEMLQNQFNGEDTRLNINSSPDEHEPLL RREQQAGHDEGLDRLVDRRERPLEGGRTNSNNNSNPC
 SEQDVPTQGVSTAADPGPAKPRRAQRPNLSDL SATNILDGSSMQIGESTQDGKSGS GEKIKRRVKT PYS
 LKRWRPSTWVISTEPLDCEVNNNGSDRAVHKSSTAVYLAEGGTATTMVSKDIGMNL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_080407

ORF Size: 3114 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_080407.1](#), [NP_536332.1](#)

RefSeq Size: 3869 bp

RefSeq ORF: 3117 bp

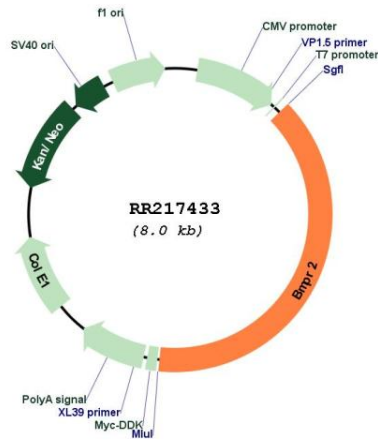
Locus ID: 140590

Cytogenetics: 9q31

MW: 114.9 kDa

Gene Summary: human homolog is a receptor for bone morphogenetic proteins and plays a role in bone development [RGD, Feb 2006]

Product images:



Circular map for RR217433