

Product datasheet for MC223313

Bmpr2 (NM_007561) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bmpr2 (NM_007561) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Bmpr2
Synonyms:	2610024H22Rik; AL117858; AW546137; BB189135; BM; BMP; BMP-; BMP-2; BMPR-2; BMPR-II; BMPRII; BRK-3; Gm20272
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223313 representing NM_007561 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCCTCGCTGCATCGGCCCTTCGGGTGCCCTGGCTGCTATGGGCCGTCCTGCTGGTCAGCACTA
CGGCTGCTTCTCAGAATCAAGAACGGCTGTGTGCATTTAAAGATCCATATCAACAAGATCTTGGGATAGG
TGAGAGTCGAATCTCTCATGAAAATGGGACAATATTATGTTCCAAAGGGAGCACGTGTTATGGTCTGTGG
GAGAAATCAAAGGGGACATCAATCTTGTGAAACAAGGATGTTGGTCTCACATCGGTGATCCCAAGAGT
GCCACTATGAAGAGTGTGTAGTAACTACCACCCACCCTCAATTCAGAATGGAACGTACCGCTTTTGCTG
CTGTAGTACAGATTTATGTAATGCAACTTTACTGAGAATTTCCACCCCTGACACAACACCCTCAGT
CCACCTCATTCTTAATCGAGATGAAACGATAATCATTGCTTTGGCATCAGTTTCTGTGTAGCTGTTT
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CGGGGTCGATACGGAGCAGTATATAAAGGTTCTTGGATGAGCGTCCAGTTGCTGTAAGTATTTTCTT
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ACAGACCTCTCCAGGTGAATCTGTACCAGATTACCAGATGGCTTTTCAGACAGAAGTTGGAAACCATC
CCACATTTGAGGATATGCAGGTTCTTGTGTCCAGAGAGAAGCAGAGACCAAGTCCAGAAAGCCTGGAA



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AGAAAATAGCCTGGCAGTGAGGTCACTCAAGGAAACAATTGAAGACTGCTGGGACCAGGATGCAGAGGCT
CGGCTCACTGCACAGTGTGCTGAGGAGAGGATGGCTGAACTCATGATGATATGGGAGAGAAAACAAGTCTG
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CCTGTCCACAAAACACCACCACAACACCACCGGCCCTACTCCAAGTACTGGCATGACCCTATATCT
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CAAGGAAAGCTCTGATGAGAATCTCATGGAGCATTCTCTGAAGCAGTTCAGTGGGCCAGACCCATTGAGC
AGTACCAGTTCTAGTTGCTTTTCCACTCATAAAGCTCGCAGTGGAAAGTACTGGACAACAGGACTTCA
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CTGATGAGCATGAACCTTACTGAGACGAGAGCAACAGGCTGGCCATGATGAAGGGGTTCTGGATCGTTT
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TCAGAACAAGATATCCTTACACAAGGTGTTACAAGCACAGCTGCAGATCCTGGGCCATCAAAGCCAGAA
GAGCACAGAGGCCAATCTCTGGATCTTTCAGCCACAATATCCTGGATGGCAGCAGTATACAGATAGG
TGAGTCAACACAAGATGGCAATCAGGATCAGGTGAAAAGATCAAGAGACGTGTGAAAATCCATACTCT
CTTAAGCGGTGGCGCCCTCCACCTGGGTCACTCCACCGAGCCGCTGGACTGTGAGGTCAACAACAATG
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CACAGTGTCTAAAGATATAGGAATGAATTGTCTGTGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Chromatograms: https://cdn.origene.com/chromatograms/ja1891_e09.zip

Restriction Sites: SgfI-MluI

ACCN: NM_007561

Insert Size: 3117 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](#)

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_007561.3](#), [NP_031587.1](#)

RefSeq Size: 11094 bp

RefSeq ORF: 3117 bp

Locus ID: 12168

UniProt ID: [O35607](#)

Cytogenetics: 1 C2

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 II receptor that binds extracellular BMPs 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 during embryonic development. Mutations in this gene can cause pulmonary hypertension. [provided by RefSeq, Mar 2013]