

Product datasheet for **MC217555**

Bmpr1a (NM_009758) Mouse Untagged Clone

Product data:

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|---------------------------|----------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Bmpr1a (NM_009758) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Bmpr1a |
| Synonyms: | 1110037I22Rik; ALK3; AU045487; Bmpr; BMPR-IA |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC217555 representing NM_009758
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTCAGTATACACTTACATCAGATTACTGGGAGCCTGTCTGTTTCATATTTCTCATGTTCAAGGGC
 AGAATCTAGATAGTATGCTCCATGGCACTGGTATGAAATCAGACTTGACCAGAAGAAGCCAGAAAATGG
 AGTGACTTTAGCACCAGAGGATACCTTGCCCTTTCTAAAGTGCTATTGCTCAGGACACTGCCAGATGAT
 GCTATTAATAACACATGCATAACTAATGGCCATTGCTTTGCCATTATAGAAGAAGATGATCAGGGAGAAA
 CCACATTAACCTTCTGGTGTATGAAGTATGAAGGCTCTGATTTTCAATGCAAGGATTCACCGAAAGCCCA
 GCTACGCAGGACAATAGAATGTTGTCGGACCAATTTGTGCAACCAGTATTTGCAGCCTACACTGCCCCCT
 GTTGTTATAGGTCGGTCTTTGATGGCAGCATCCGATGGCTGGTGTGCTCATTCCATGGCTGTCTGTA
 TAGTTGCTATGATCATCTTCTCCAGCTGCTTTTGTATAAGCATTATTGTAAGAGTATCTCAAGCAGGGG
 TCGTTACAACCGTGATTTGGAACAGGATGAAGCATTTATCCAGTAGGAGAAATCATTGAAAGACCTGATT
 GACCAGTCCCAAAGCTCTGGGAGTGGATCTGGATTGCCTTTATTGGTTACGCGAACTATTGCCAAACAGA
 TTCAGATGGTTCCGGCAGTTGGTAAAGGCCGCTATGGAGAAGTATGGATGGGTAAATGGCGTGGTAAAA
 AGTGGCTGTCAAAGTGTTTTTACCCTGAAGAAGCTAGCTGGTTAGAGAAACAGAAATCTACCAGACG
 GTGTTAATGCGTCATGAAAATACTTGGTTTTATAGTGCAGACATTAAGGCACTGGTTCCTGGACTC
 AGCTGATTTGATTACTGATTACCATGAAAATGGATCTCTCTATGACTTCCTGAAATGTGCCACACTAGA
 CACCAGAGCCCTACTCAAGTTAGCTTATTCTGCTGCTTGTGGTCTGTGCCACCTCCACACAGAAATTTAT
 GGTACCAAGGGAAGCCGCAATTGCTCATCGAGACCTGAAGAGCAAAAACATCCTTATTAAGAAAAATG
 GAAGTTGCTGTATTGCTGACCTGGCCCTAGCTGTTAAATCAACAGTGATACAAAATGAAGTTGACATACC
 CTTGAATACCAGGTGGGCACCAAGCGGTACATGGCTCCAGAAGTGTGGATGAAAGCCTGAATAAAAAAC
 CATTTCAGCCCTACATCATGGCTGACATCTATAGCTTTGGTTTGATCATTGGGAAATGGCTCGTCGTT
 GTATTACAGGAGGAATCGTGGAGGAATATCAATTACCATATTACAACATGGTGCCAGTGACCCATCCTA
 TGAGGACATGCGTGAGGTTGTGTGTGTAACGCTTGGCGCAATCGTGTCTAACCGCTGGAACAGCGAT
 GAATGTCTTCGAGCAGTTTTGAAGCTAATGTCAGAATGTTGGGCCATAATCCAGCCTCCAGACTCACAG
 CTTTGAGAATCAAGAAGACACTGCAAAAATGTTGAATCCAGGATGTAAGATTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_009758

Insert Size: 1599 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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_009758.4 , NP_033888.2 |
| RefSeq Size: | 5481 bp |
| RefSeq ORF: | 1599 bp |
| Locus ID: | 12166 |
| UniProt ID: | P36895 |
| Cytogenetics: | 14 20.81 cM |
| Gene Summary: | On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for BMP2, BMP4, GDF5 and GDF6. Positively regulates chondrocyte differentiation through GDF5 interaction (PubMed:24098149). Mediates induction of adipogenesis by GDF6 (PubMed:23527555).[UniProtKB/Swiss-Prot Function] |