

Product datasheet for **RC232945**

BMPR1B (NM_001256793) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMPR1B (NM_001256793) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BMPR1B
Synonyms:	ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC232945 representing NM_001256793
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGTTGGCTGGAAGAATAAAGTGGCAGCTTACATTTTCTTGCTCATTCTTCTCTATGCACACAA
 GGGCAAATTCCTTGATAACATGCTTTTTCGAAGTGCAGGAAAATTAATGTGGGCACCAAGAAAGAGGA
 TGGTGAGAGTACAGCCCCACCCCGTCCAAAGTCTTGCGTTGTAATGCCACCACCATTGTCCAGAA
 GACTCAGTCAACAATATTTGCAGCACAGACGGATATTGTTTCACGATGATAGAAGAGGATGACTCTGGGT
 TGCCTGTGGTCACCTCTGGTTGCCTAGGACTAGAAGGCTCAGATTTTCAGTGTGGGACACTCCCATTCC
 TCATCAAAGAAGATCAATTGAATGCTGCACAGAAAGGAACGAATGTAATAAAGACCTACACCCTACTG
 CCTCCATTGAAAAACAGAGATTTTGTGATGGACCTATACCCACAGGGCTTTACTTATATCTGTGACTG
 TCTGTAGTTTCTTGGTCTTATCATATTTTGTACTTCCGGTATAAAGACAAGAAACCAGACC
 TCGATACAGCATTGGGTTAGAACAGGATGAAACTTACATTCCTCTGGAGAATCCCTGAGAGACTTAATT
 GAGCAGTCTCAGAGCTCAGGAAGTGGATCAGGCCCTCCCTCTGCTGGTCCAAAGGACTATAGCTAAGCAGA
 TTCAGATGGTGAACAGATTGGAAGGTCGCTATGGGGAAGTTGGATGGGAAAGTGGCGTGGCGAAAA
 GGTAGCTGTGAAAGTGTCTTACCACAGAGGAAGCCAGCTGGTTCAGAGAGACAGAAATATATCAGACA
 GTGTTGATGAGGCATGAAACATTTTGGGTTTCATTGCTGCAGATATCAAAGGGACAGGGTCTGGACCC
 AGTTGTACCTAATCACAGACTATCATGAAAATGGTTCCTTTATGATTATCTGAAGTCCACCACCCTAGA
 CGCTAAATCAATGCTGAAGTTAGCCTACTCTTCTGTCAGTGGCTTATGTCATTTACACACAGAAATCTTT
 AGTACTCAAGGCAAACCAGCAATTGCCATCGAGATCGAAAAGTAAAAACATTCTGGTGAAGAAAAATG
 GAACTTGTCTGATTGCTGACCTGGCCTGGCTGTTAAATTTATTAGTGATACAAATGAAGTTGACATACC
 ACCTAACACTCGAGTTGGCACCACCAACGCTATATGCCTCCAGAAGTGTGGACGAGAGCTTGAACAGAAAT
 CACTTCCAGTCTTACATCATGGCTGACATGATAGTTTTGGCCTCATCCTTTGGGAGGTTGCTAGGAGAT
 GTGATACAGGAGGTATAGTGAAGAATACCAGCTTCTTATCATGACCTAGTGCCAGTGACCCCTCTTA
 TGAGGACATGAGGGAGATTGTGTGCATCAAGAAGTTACGCCCTCATTCCCAAACCGGTGGAGCAGTGAT
 GAGTGTCTAAGGCAGATGGGAAACTCATGACAGAATGCTGGGCTCACAATCCTGCATCAAGGCTGACAG
 CCCTGCGGGTTAAGAAAACACTTGCCAAAATGTCAGAGTCCAGGACATTAAACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232945 representing NM_001256793
 Red=Cloning site Green=Tags(s)

MGWLEELNWQLHIFLLILLSMHTRANFLDNMLLSAGKLNVTGKEDGESTAPTRPKVLRCKCHHHCP
 DSVNNICSTDGYCFMIEEDDGLPVVTSGLGLEGSDFQCRDTPIPHQRRIECCTERNECNKDLHPTL
 PPLKNRDFVDGPIHHRALLISVTVCSLLLVLIIILFCYFRYKRQETRPRYSIGLEQDETYIPPGESL
 RDLEEQSSSGSGLPQLLVQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFVFTTEEASWFRE
 TEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDYLKSTLDAKSMLKLA
 YSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKNGTCCIALDLGLAVKFI
 SDTNEVDIPPNTRVGTRKRYMPPEVLD
 DESLNRNHFQSYIMADMYSFGLILWEVARRCVSGGIVEEYQLPYHDLVPSDP
 SYEDMREIVCIIKLRPSF
 PNRWSSDECLRQMGKLMTECWAHNPASRLTALRVKKT
 LAKMSESQDIKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001256793

ORF Size: 1596 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_001256793.2](#)

RefSeq Size: 5397 bp

RefSeq ORF: 1599 bp

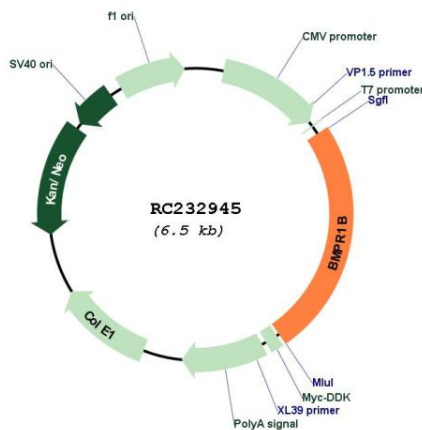
Locus ID: 658

UniProt ID: [O00238](#)

Cytogenetics:	4q22.3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
MW:	61 kDa

Gene Summary: This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC232945