

Product datasheet for **RG232945**

BMPR1B (NM_001256793) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BMPR1B (NM_001256793) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BMPR1B
Synonyms:	ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232945 representing NM_001256793
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTTGGCTGGAAGAATAAAGTGGCAGCTTACATTTTCTTGCTCATTCTTCTCTATGCACACAA
 GGGCAAATTCCTTGATAACATGCTTTTTCGAAGTGCAGGAAAATTAATGTGGGCACCAAGAAAGAGGA
 TGGTGAGAGTACAGCCCCACCCCGTCCAAAGTCTTGCGTTGTAAATGCCACCACCATTGTCCAGAA
 GACTCAGTCAACAATATTTGCAGCACAGACGGATATTGTTTCACGATGATAGAAGAGGATGACTCTGGGT
 TGCCTGTGGTCACTTCTGGTTGCCTAGGACTAGAAGGCTCAGATTTTCAGTGTGGGACACTCCCATTCC
 TCATCAAAGAAGATCAATTGAATGCTGCACAGAAAGGAACGAATGAATAAAGACCTACACCCTACACTG
 CCTCCATTGAAAAACAGAGATTTTGTGATGGACCTATACACCACAGGGCTTTACTTATATCTGTGACTG
 TCTGTAGTTTCTTGGTCTTATCATATTTTGTACTTCCGGTATAAAGACAAGAAACCAGACC
 TCGATACAGCATTGGGTTAGAACAGGATGAAACTTACATTCCTCTGGAGAATCCCTGAGAGACTTAATT
 GAGCAGTCTCAGAGCTCAGGAAGTGGATCAGGCCCTCCCTCTGCTGGTCCAAAGGACTATAGCTAAGCAGA
 TTCAGATGGTGAACAGATTGGAAGGTCGCTATGGGGAAGTTGGATGGGAAAGTGGCGTGGCGAAAA
 GGTAGCTGTGAAAGTGTCTTACCACAGAGGAAGCCAGCTGGTTCAGAGAGACAGAAATATATCAGACA
 GTGTTGATGAGGCATGAAACATTTTGGGTTTCATTGCTGCAGATATCAAAGGGACAGGGTCTGGACCC
 AGTTGTACCTAATCACAGACTATCATGAAAATGGTTCCCTTTATGATTATCTGAAGTCCACCACCCTAGA
 CGCTAAATCAATGCTGAAGTTAGCCTACTCTTCTGTCAGTGGCTTATGTCATTTACACACAGAAATCTTT
 AGTACTCAAGGCAAACCAGCAATTGCCATCGAGATCGAAAAGTAAAAACATTCTGGTGAAGAAAAATG
 GAACTTGTGTATTGCTGACCTGGCCTGGCTGTTAAATTTATTAGTGATACAAATGAAGTTGACATACC
 ACCTAACACTCGAGTTGGCACCAACGCTATATGCCTCCAGAAGTGTGGACGAGAGCTTGAACAGAAAT
 CACTTCCAGTCTTACATCATGGCTGACATGATAGTTTTGGCCTCATCCTTTGGGAGGTTGCTAGGAGAT
 GTGATACAGGAGGTATAGTGAAGAATACCAGCTTCTTATCATGACCTAGTGCCAGTGACCCCTCTTA
 TGAGGACATGAGGGAGATTGTGTGCATCAAGAAGTTACGCCCTCATTCCCAAACCGGTGGAGCAGTGAT
 GAGTGTCTAAGGCAGATGGGAAACTCATGACAGAATGCTGGGCTCACAATCCTGCATCAAGGCTGACAG
 CCCTGCGGGTTAAGAAAACACTTGCCAAAATGTCAGAGTCCAGGACATTAACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232945 representing NM_001256793
 Red=Cloning site Green=Tags(s)

MGWLEELNWQLHIFLLILLSMHTRANFLDNMLLRSAKLNKLVGTTKEDGESTAPTRPKVLRCKCHHHCPE
 DSVNNICSTDGYCFMTIEEDDGLPVVTSGLGLEGSDFQCRDTPIPHQRRIECCTERNECNKDLHPTL
 PPLKNRDFVDGPIHHRALLISVTVCSLLLVLIILFCYFRYKRQETRPYSIGLEQDETYIPPGESLRDLI
 EQSQSSGSGSGLPLLVRQTIQAKQIQMVKQIGKGRYGEVVMGKWRGEKVAVKVFVFTTEEASWFRETEIYQT
 VLMRHNILGFIAADIKGTGSWTQLYLITDYHENGSLYDYLKSTTLDAKSMLKLAYSSVSGLCHLHTEIF
 STQGKPAIAHRDLKSKNILVKKNGTCCIALDGLAVKFIISDTNEVDIPPNTRVGTRKRYMPEVLDLNRN
 HFQSYIMADMYSFGLILWEVARRCVSGGIVEEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFNRWSSD
 ECLRQMGKLMTECWAHPASRLTALRVKKTAKMSESQDIKL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<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_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
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]