

Product datasheet for **KN210218BN**

BMPR1B Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	BMPR1B
Locus ID:	658
Components:	<p>KN210218G1, BMPR1B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN210218G2, BMPR1B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN210218BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_001203 , NM_001256792 , NM_001256793 , NM_001256794
UniProt ID:	O00238
Synonyms:	ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293
Summary:	<p>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]</p>



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Product images:

