

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 BMPR1B Symbol:

Locus ID: 658

KN210218G1, BMPR1B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN210218G2, BMPR1B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN210218BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

NM 001203, NM 001256792, NM 001256793, NM 001256794 RefSeq:

UniProt ID: O00238

Synonyms: ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293

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]



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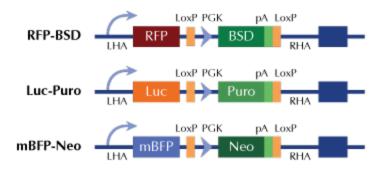
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Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter