

Product datasheet for KN208673BN

BMPR2 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: BMPR2

Locus ID: 659

KN208673G1, BMPR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN208673G2, BMPR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN208673BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is

> designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

NM 001204, NM 033346 RefSeq:

UniProt ID: Q13873

Synonyms: BMPR-II; BMPR3; BMR2; BRK-3; POVD1; PPH1; T-ALK

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 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 two different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Mutations in this gene have been associated with primary pulmonary hypertension, both familial and fenfluramine-associated,

and with pulmonary venoocclusive disease. [provided by RefSeq, May 2020]



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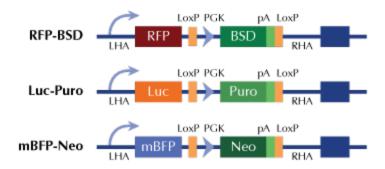
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Product images:

Donor Vector Edited Chromosome



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