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Product datasheet for KN206920

Activin A Receptor Type IB (ACVR1B) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

Donor DNA: GFP-puro

Symbol: Activin A Receptor Type IB

Locus ID: 91

Components: **KN206920G1**, Activin A Receptor Type IB gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACCCGCCGCTGCCGGCGAGC
KN206920G2, Activin A Receptor Type IB gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACTCACCCTGGACCCCCCG
KN206920D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.
Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

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AGCTCCGGTT CCCAACGATC

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.

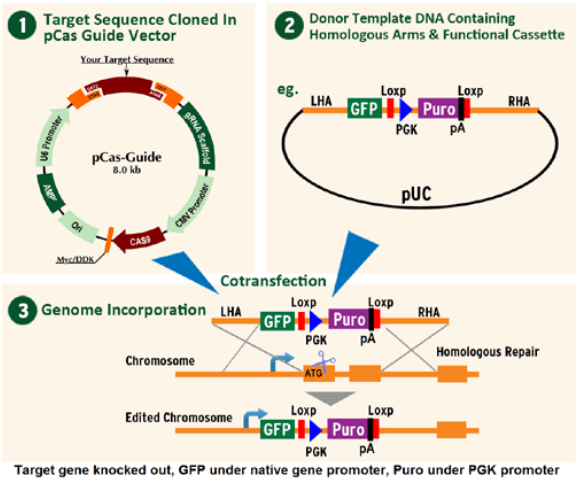
RefSeq: NM_004302, NM_020327, NM_020328

UniProt ID: P36896

Synonyms: ACTRIB; ACVRLK4; ALK4; SKR2

Summary: This gene encodes an activin A type IB receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I and two type II receptors. This protein is a type I receptor which is essential for signaling. Mutations in this gene are associated with pituitary tumors. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]

Product images:



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter