

Product datasheet for KN202671RB

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TMEM138 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD Symbol: **TMEM138** Locus ID: 51524

KN202671G1, TMEM138 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

> KN202671G2, TMEM138 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN202671RBD, donor DNA containing left and right homologous arms and RFP-BSD

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.

RefSeq: NM 001330281, NM 016464, NR 028473

UniProt ID: Q9NPI0 Synonyms: HSPC196

Summary: This gene encodes a multi-pass transmembrane protein. Reduced expression of this gene in

> mouse fibroblasts causes short cilia and failure of ciliogenesis. Expression of this gene is tightly coordinated with expression of the neighboring gene TMEM216. Mutations in this gene

are associated with the autosomal recessive neurodevelopmental disorder Joubert

Syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq,

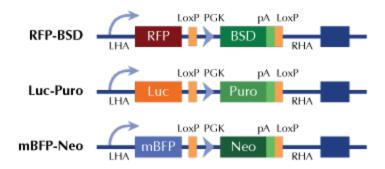
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Product images:

Donor Vector Edited Chromosome



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