

## Product datasheet for **KN214550BN**

### **RIZ1 (PRDM2) Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

<b>Product Type:</b>	Knockout Kits (CRISPR)
<b>Format:</b>	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
<b>Donor DNA:</b>	mBFP-Neo
<b>Symbol:</b>	RIZ1
<b>Locus ID:</b>	7799
<b>Components:</b>	<b>KN214550G1</b> , RIZ1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN214550G2</b> , RIZ1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN214550BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , scramble sequence in pCas-Guide vector
<b>Disclaimer:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_001007257</a> , <a href="#">NM_001135610</a> , <a href="#">NM_012231</a> , <a href="#">NM_015866</a>
<b>UniProt ID:</b>	<a href="#">Q13029</a>
<b>Synonyms:</b>	HUMHOXY1; KMT8; MTB-ZF; RIZ; RIZ1; RIZ2
<b>Summary:</b>	This tumor suppressor gene is a member of a nuclear histone/protein methyltransferase superfamily. It encodes a zinc finger protein that can bind to retinoblastoma protein, estrogen receptor, and the TPA-responsive element (MTE) of the heme-oxygenase-1 gene. Although the functions of this protein have not been fully characterized, it may (1) play a role in transcriptional regulation during neuronal differentiation and pathogenesis of retinoblastoma, (2) act as a transcriptional activator of the heme-oxygenase-1 gene, and (3) be a specific effector of estrogen action. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]



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## Product images:

