

# Product datasheet for KN204171RB

## DDX3 (DDX3X) 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: DDX3 Locus ID: 1654 **KN204171G1**, DDX3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **Components:** KN204171G2, DDX3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN204171RBD, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. GE100003, scramble sequence in pCas-Guide vector **RefSeq:** NM 001193416, NM 001193417, NM 001356, NM 024005, NR 126093, NR 126094, NM 001363819 **UniProt ID:** 000571 Synonyms: CAP-Rf; DBX; DDX3; DDX14; HLP2 Summary: The protein encoded by this gene is a member of the large DEAD-box protein family, that is defined by the presence of the conserved Asp-Glu-Ala-Asp (DEAD) motif, and has ATPdependent RNA helicase activity. This protein has been reported to display a high level of RNA-independent ATPase activity, and unlike most DEAD-box helicases, the ATPase activity is thought to be stimulated by both RNA and DNA. This protein has multiple conserved domains and is thought to play roles in both the nucleus and cytoplasm. Nuclear roles include transcriptional regulation, mRNP assembly, pre-mRNA splicing, and mRNA export. In the cytoplasm, this protein is thought to be involved in translation, cellular signaling, and viral replication. Misregulation of this gene has been implicated in tumorigenesis. This gene has a paralog located in the nonrecombining region of the Y chromosome. Pseudogenes sharing similarity to both this gene and the DDX3Y paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

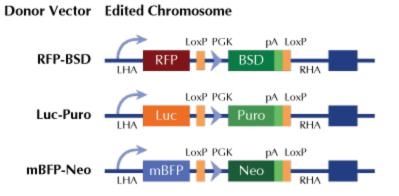


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### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

### **Product images:**



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

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