

## Product datasheet for **KN210804RB**

### TXNIP 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:	TXNIP
Locus ID:	10628
Components:	<b>KN210804G1</b> , TXNIP gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN210804G2</b> , TXNIP gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN210804RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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\\_001313972](#), [NM\\_006472](#)

**UniProt ID:** [Q9H3M7](#)

**Synonyms:** ARRDC6; EST01027; HHCPA78; THIF; VDUP1

**Summary:** This gene encodes a thioredoxin-binding protein that is a member of the alpha arrestin protein family. Thioredoxin is a thiol-oxidoreductase that is a major regulator of cellular redox signaling which protects cells from oxidative stress. This protein inhibits the antioxidative function of thioredoxin resulting in the accumulation of reactive oxygen species and cellular stress. This protein also functions as a regulator of cellular metabolism and of endoplasmic reticulum (ER) stress. This protein may also function as a tumor suppressor. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]



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## Product images:

