

## Product datasheet for **KN210918**

### ERP29 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:** ERP29  
**Locus ID:** 10961  
**Components:** **KN210918G1**, ERP29 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCCGCTCCGCATGGCGGCAG  
**KN210918G2**, ERP29 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGAGAGAAATGCGGCGCG  
**KN210918D**, 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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 GTTTGCGCAA CGTTGTTGCC ATTGCTACAG GCATCGTGGT GTCACGCTCG TCGTTTGGTA TGGCTTCATT  
 CAGCTCCGGT TCCCAACGAT C

**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\\_001034025](#), [NM\\_006817](#)

**UniProt ID:**

[P30040](#)

**Synonyms:**

C12orf8; ERp28; ERp31; HEL-S-107; PDI-DB; PDIA9

**Summary:**

This gene encodes a protein which localizes to the lumen of the endoplasmic reticulum (ER). It is a member of the protein disulfide isomerase (PDI) protein family but lacks an active thioredoxin motif, suggesting that this protein does not function as a disulfide isomerase. The canonical protein dimerizes and is thought to play a role in the processing of secretory proteins within the ER. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]

Product images:

