

Product datasheet for **KN202971**

ZKSCAN3 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:	ZKSCAN3
Locus ID:	80317
Components:	<p>KN202971G1, ZKSCAN3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATGGAGCTTCTGGTCATAA</p> <p>KN202971G2, ZKSCAN3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTCTGTAGACTGGGCATCCA</p> <p>KN202971D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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_001242894](#), [NM_001242895](#), [NM_024493](#)

UniProt ID:

[Q9BRR0](#)

Synonyms:

dj874C20.1; dj874C20.1.; ZF47; zfp-47; Zfp47; ZFP306; ZNF306; ZNF309; ZSCAN13; ZSCAN35

Summary:

Transcriptional factor that binds to the consensus sequence 5'-[GT][AG][AGT]GGGG-3' and acts as a repressor of autophagy. Specifically represses expression of genes involved in autophagy and lysosome biogenesis/function such as MAP1LC3B, ULK1 or WIPI2. Associates with chromatin at the ITGB4 and VEGF promoters. Also acts as a transcription activator and promotes cancer cell progression and/or migration in various tumors and myelomas. [UniProtKB/Swiss-Prot Function]

Product images:

