

Product datasheet for **KN204048**

Ku70 (XRCC6) 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:	Ku70
Locus ID:	2547
Components:	<p>KN204048G1, Ku70 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCTGCTTCTTCATCGCCCT</p> <p>KN204048G2, Ku70 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCACCTACCACTTGCTTCA</p> <p>KN204048D, 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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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CACGCTCGTC GTTTGGTATG GCTTCATTCA GCTCCGGTTC CCAACGATC

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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_001288976](#), [NM_001288977](#), [NM_001288978](#), [NM_001469](#)

UniProt ID:

[P12956](#)

Synonyms:

CTC75; CTCBF; G22P1; KU70; ML8; TLAA

Summary:

The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus. [provided by RefSeq, Jul 2008]

Product images:

