

Product datasheet for **KN201537**

NFIL3 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: NFIL3
Locus ID: 4783
Components: **KN201537G1**, NFIL3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCTTGTCCACATTGCTAC
KN201537G2, NFIL3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAAAATGCAGACCGTCAAAA
KN201537D, 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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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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_001289999](#), [NM_001290000](#), [NM_005384](#)

UniProt ID:

[Q16649](#)

Synonyms:

E4BP4; IL3BP1; NF-IL3A; NFIL3A

Summary:

The protein encoded by this gene is a transcriptional regulator that binds as a homodimer to activating transcription factor (ATF) sites in many cellular and viral promoters. The encoded protein represses PER1 and PER2 expression and therefore plays a role in the regulation of circadian rhythm. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Feb 2014]

Product images:

