

Product datasheet for **KN202257**

H3.3B (H3F3B) 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:	H3.3B
Locus ID:	3021
Components:	<p>KN202257G1, H3.3B gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCGCTACAGGTAGGTCGGG</p> <p>KN202257G2, H3.3B gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAAGCGCTCCCTCTACCGGC</p> <p>KN202257D, 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
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
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AGCTCCGGTT 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_005324](#)

UniProt ID:

[P84243](#)

Synonyms:

H3.3B

Summary:

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded by this gene is a replication-independent histone that is a member of the histone H3 family. Pseudogenes of this gene have been identified on the X chromosome, and on chromosomes 5, 13 and 17. [provided by RefSeq, Oct 2015]

Product images:

