

Product datasheet for **KN215750**

CARD15 (NOD2) 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: CARD15
Locus ID: 64127
Components: **KN215750G1**, CARD15 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCTTACCCGGAGAATGTCCG
KN215750G2, CARD15 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTCAGCCTCTCACGATGAGG
KN215750D, 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_001293557](#), [NM_022162](#), [NM_001370466](#), [NR_163434](#)

UniProt ID:

[Q9HC29](#)

Synonyms:

ACUG; BLAU; CARD15; CD; CLR16.3; IBD1; NLRC2; NOD2B; PSORAS1

Summary:

This gene is a member of the Nod1/Apaf-1 family and encodes a protein with two caspase recruitment (CARD) domains and six leucine-rich repeats (LRRs). The protein is primarily expressed in the peripheral blood leukocytes. It plays a role in the immune response to intracellular bacterial lipopolysaccharides (LPS) by recognizing the muramyl dipeptide (MDP) derived from them and activating the NFkB protein. Mutations in this gene have been associated with Crohn disease and Blau syndrome. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jun 2014]

Product images:

