

Product datasheet for **KN206757**

CARD12 (NLRC4) 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: CARD12
Locus ID: 58484
Components: **KN206757G1**, CARD12 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGAGCCCTTATTCAAAGAAT
KN206757G2, CARD12 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCACAGATGACCTATTTGTA
KN206757D, 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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CTCCGGTTCC CAACGATC

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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_001199138](#), [NM_001199139](#), [NM_001302504](#), [NM_021209](#)

UniProt ID:

[Q9NPP4](#)

Synonyms:

AIFEC; CARD12; CLAN; CLAN1; CLANA; CLANB; CLANC; CLAND; CLR2.1; FCAS4; IPAF

Summary:

This gene encodes a member of the caspase recruitment domain-containing NLR family. Family members play essential roles in innate immune response to a wide range of pathogenic organisms, tissue damage and other cellular stresses. Mutations in this gene result in autoinflammation with infantile enterocolitis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:

