

## Product datasheet for **KN217652**

### CARD10 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:	CARD10
Locus ID:	29775
Components:	<p><b>KN217652G1</b>, CARD10 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCGCTGTGGGAGCGAATCG</p> <p><b>KN217652G2</b>, CARD10 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGGCTCGGGGTCTGAGGCGG</p> <p><b>KN217652D</b>, 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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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
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**ACGACCTGGG** **CCGGCCGTGC** **CCTGGGGCGC** **AGCGCCACA** **GCCGTGTAGC** **GCGAAGCTAG** **GGCTCTGCTG**  
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**CCCACCACTG** **CGCCTTGGCG** **GTCCGCGTTG** **CCCACACCGG** **GGTCAGAGTT** **TTGTCTCTTG** **GGGTTCTCTC**  
**CCACTTCTG** **GGTCCACATT** **AGAGCAGAAG** **GTTGGATGTG** **GCTGCCAGGG** **CCGGCTGGGC** **CTGGGACCTC**

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CCTACTCCAC AGGGTGTGCT CCACAGTCTT CACTGACTGA CTGACTGGAA AGAGGAAGGG CTGGAAGAGG
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AACATACGAG CCGGAAGCAT AAAGTGTAAA GCCTGGGGTG CCTAATGAGT GAGCTAACTC ACATTAATTG
CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG GAAACCTGTC GTGCCAGCTG CATTAAATGAA TCGGCCAACG
CGCGGGGAGA GCGGTTTTGC GTATTGGGCG CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC
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CCGACAGGAC TATAAGATA CCAGGCGTTT CCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC
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CGTGTAGATA ACTACGATC GGGAGGGCTT ACCATCTGGC CCCAGTGCTG CAATGATACC GCGAGAACCA
CGCTCACCGG CTCCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTTG
CAACTTTATC CGCCTCCATC CAGTCTATTA ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA
TAGTTTGCGC AACGTTGTTG CCATTGCTAC AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA
TTCAGCTCCG GTTCCCAACG ATC

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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\\_014550](#)

**UniProt ID:**

[Q9BWT7](#)

**Synonyms:**

BIMP1; CARMA3

**Summary:**

The caspase recruitment domain (CARD) is a protein module that consists of 6 or 7 antiparallel alpha helices. It participates in apoptosis signaling through highly specific protein-protein homophilic interactions. Like several other CARD proteins, CARD10 belongs to the membrane-associated guanylate kinase (MAGUK) family and activates NF-kappa-B (NFKB; see MIM 164011) through BCL10 (MIM 603517) (Wang et al., 2001 [PubMed 11259443]).[supplied by OMIM, Mar 2008]

Product images:

