

## Product datasheet for **KN203179**

### CD38 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:	CD38
Locus ID:	952
Components:	<p><b>KN203179G1</b>, CD38 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CACCGGGCTGAACTCGCAGT</p> <p><b>KN203179G2</b>, CD38 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGGTTTGTCCCCGGACACC</p> <p><b>KN203179D</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**

```
CGCCAACACC CGCTGACGCG CCCTGACGGG CTTGTCTGCT CCCGGCATCC GCTTACAGAC AAGCTGTGAC
CGTCTCCGGG AGCTGCATGT GTCAGAGGTT TTCACCGTCA TCACCGAAAC GCGCGAGGCA GCTGCGGTAA
AGTCATCAG CGTGGTCGTG AAGCGATTCA CAGATGTCTG CCTGTTTCATC CGCGTCCAGC TCGTTGAGTT
TCTCCAGAAG CGTTAATGTC TGGCTTCTGA TAAAGCGGGC CATGTTAAGG GCGGTTTTTTT CCTGTTTTGGT
CACTGATGCC TCCGTGTAAG GGGGATTTCT GTTCATGGGG GTAATGATAC CGATGAAACG AGAGAGGATG
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TGTTCCACAG GGTAGCCAGC AGCATCCTGC GATGCAGATC CGGAACATAA TGGTGCAGGG CGTGACTTTC
CGCGTTTTCCA GACTTTACGA AACACGGAAA CCGAAGACCA TTCATGTTGT TGCTCAGGTC GCAGACGTTT
TGCAGCAGCA GTCGCTTAC GTTCGCTCGC GTATCGGTGA TTCATTCTGC TAACCAGTAA GGCAACCCCG
CCAGCCTAGC CGGGTCCTCA ACGACAGGAG CACGATCATG CGCACCCGTG GCCAGGACCC AACGCTGCCC
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TGCGGCAGC ATAGTCATGC CCGCGCCCA CCGGAAGGAG CTGACTGGGT TGAAGGCTCT CAAGGGCATC
GGTCGACGCT CTCCCTTATG CGACTCCTGC ATTAGGAAGC AGCCAGTAG TAGGTTGAGG CCGTTGAGCA
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CCGCCGCCG AAGGAATGGT GCATGCAAGG AGATGGCGCC CAACAGTCCC CCGGCCACGG GGCCTGCCAC  
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GACTTGAGCG TCGATTTTTG TGATGCTCGT CAGGGGGGCG GAGCCTATGG AAAAACGCCA GCAACGCGGC
CTTTTTACGG TTCCTGGCCT TTTGCTGGCC TTTTGCTCAC ATGTTCTTTC CTGCGTTATC CCCTGATTCT
GTGGATAACC GTATTACCGC CTTTGA

```

**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\\_001775](#), [NR\\_132660](#)

**UniProt ID:**

[P28907](#)

**Synonyms:**

ADPRC 1; T10

**Summary:**

The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

**Product images:**
