

## Product datasheet for **KN302920**

### Cd44 Mouse 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:	Cd44
Locus ID:	12505
Components:	<p><b>KN302920G1</b>, Cd44 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGCCACCAAAACTTGCCA</p> <p><b>KN302920G2</b>, Cd44 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCACATCCACATCAGCAGAT</p> <p><b>KN302920D</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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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\\_001039150](#), [NM\\_001039151](#), [NM\\_001177785](#), [NM\\_001177786](#), [NM\\_001177787](#),  
[NM\\_009851](#)

**UniProt ID:**

[P15379](#)

**Synonyms:**

AU023126; AW121933; AW146109; HERMES; Ly-24; Pgp-1

**Summary:**

Cell-surface receptor that plays a role in cell-cell interactions, cell adhesion and migration, helping them to sense and respond to changes in the tissue microenvironment. Participates thereby in a wide variety of cellular functions including the activation, recirculation and homing of T-lymphocytes, hematopoiesis, inflammation and response to bacterial infection. Engages, through its ectodomain, extracellular matrix components such as hyaluronan/HA, collagen, growth factors, cytokines or proteases and serves as a platform for signal transduction by assembling, via its cytoplasmic domain, protein complexes containing receptor kinases and membrane proteases (PubMed:8343954, PubMed:25065622). Such effectors include PKN2, the RhoGTPases RAC1 and RHOA, Rho-kinases and phospholipase C that coordinate signaling pathways promoting calcium mobilization and actin-mediated cytoskeleton reorganization essential for cell migration and adhesion (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**
