

Product datasheet for **KN204036**

PACS1 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: PACS1
Locus ID: 55690
Components: **KN204036G1**, PACS1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGCGACCCCGATCCCCGC
KN204036G2, PACS1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCAGCCGACGCCCCCAAGC
KN204036D, 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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GGGGATCATG TAACTCGCCT T

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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_018026](#), [NM_178178](#)

UniProt ID:

[Q6VY07](#)

Synonyms:

MRD17

Summary:

This gene encodes a protein with a putative role in the localization of trans-Golgi network (TGN) membrane proteins. Mouse and rat homologs have been identified and studies of the homologous rat protein indicate a role in directing TGN localization of furin by binding to the protease's phosphorylated cytosolic domain. In addition, the human protein plays a role in HIV-1 Nef-mediated downregulation of cell surface MHC-I molecules to the TGN, thereby enabling HIV-1 to escape immune surveillance. [provided by RefSeq, Jul 2008]

Product images:

