

Product datasheet for **KN204457**

KCNN4 Human Gene Knockout Kit (CRISPR)

Product data:

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| Product Type: | Knockout Kits (CRISPR) |
| Format: | 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control |
| Donor DNA: | GFP-puro |
| Symbol: | KCNN4 |
| Locus ID: | 3783 |
| Components: | <p>KN204457G1, KCNN4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGCAGGAGAAGTCTCTGGC</p> <p>KN204457G2, KCNN4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGAACTGGCATTGGACTCA</p> <p>KN204457D, 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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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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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_002250](#)

UniProt ID:

[O15554](#)

Synonyms:

hIKCa1; hKCa4; hSK4; IK; IK1; IKCA1; KCa3.1; KCA4; SK4

Summary:

The protein encoded by this gene is part of a potentially heterotetrameric voltage-independent potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization, which promotes calcium influx. The encoded protein may be part of the predominant calcium-activated potassium channel in T-lymphocytes. This gene is similar to other KCNN family potassium channel genes, but it differs enough to possibly be considered as part of a new subfamily. [provided by RefSeq, Jul 2008]

Product images:

