

Product datasheet for **KN206029**

SLC20A2 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: SLC20A2
Locus ID: 6575
Components: **KN206029G1**, SLC20A2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AACGATGTTGCCAACTCCTT
KN206029G2, SLC20A2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCCACAAATACTCATCCA
KN206029D, 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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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_001257180](#), [NM_001257181](#), [NM_006749](#)

UniProt ID:

[Q08357](#)

Synonyms:

GLVR-2; GLVR2; IBGC1; IBGC3; MLVAR; PIT-2; PIT2; Ram-1; RAM1

Summary:

This gene encodes a member of the inorganic phosphate transporter family. The encoded protein is a type 3 sodium-dependent phosphate symporter that plays an important role in phosphate homeostasis by mediating cellular phosphate uptake. The encoded protein also confers susceptibility to viral infection as a gamma-retroviral receptor. Mutations in this gene may play a role in familial idiopathic basal ganglia calcification. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

Product images:

