

Product datasheet for **KN221042**

NAT1 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:	NAT1
Locus ID:	9
Components:	<p>KN221042G1, NAT1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAATTGGCTATAAGAAGTCT</p> <p>KN221042G2, NAT1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCTAGGAACAAATTGGACT</p> <p>KN221042D, 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_000662](#), [NM_001160170](#), [NM_001160171](#), [NM_001160172](#), [NM_001160173](#),
[NM_001160174](#), [NM_001160175](#), [NM_001160176](#), [NM_001160179](#), [NM_001291962](#)

UniProt ID:

[P18440](#)

Synonyms:

AAC1; MNAT; NAT-1; NATI

Summary:

This gene is one of two arylamine N-acetyltransferase (NAT) genes in the human genome, and is orthologous to the mouse and rat Nat2 genes. The enzyme encoded by this gene catalyzes the transfer of an acetyl group from acetyl-CoA to various arylamine and hydrazine substrates. This enzyme helps metabolize drugs and other xenobiotics, and functions in folate catabolism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:

