

Product datasheet for **KN208554**

GATA2 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:	GATA2
Locus ID:	2624
Components:	<p>KN208554G1, GATA2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGCCTGGCGCACAACACTACA</p> <p>KN208554G2, GATA2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCCGCGCTGGATGGCGCACC</p> <p>KN208554D, 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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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTTGAA AACGTTCTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
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 TTTGCCAAGT TCTAATTCCA TCAGAAGCTG GTCGAGATCC GGAACCCTTA ATATAACTTC GTATAATGTA
 TGCTATACGA AGTTATTAG TCCCTCGAAG AGTTCACTA GGCGCGCTG **CTGCCTCCAG ACGAGGTGGA**
CGTCTTCTC AATCACCTCG ACTCGCAGGG CAACCCCTAC TATGCCAACC CCGCTCACG CCGGGCGCGC
GTCTCTACA GCCCGCGCA CGGTGAGCAC TGGGCCGCTG GTGATGAGAA CCCAGGCGCC GCGCGCCAGG
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TTCCAGCTGG CCTGTGAGGG TTCCCTGTAG GGTCTGTCCG GTGGGGTTCC TTCTATGCCA CTTGCTCTC
AGCTTGACT GACATTCCTG ATTATTACC GTGGGTATT ATGTTTCTG CTTTCTTTG GGAGGGGATG

ACTGCTGGTT CTGGGAGTCG TGATCTCAAT GTCTGTCAGG GCGTCCCTA GCTCTGCCTA CCCTGATCTT
 TCTGCCACC CTGATCCTCT CTCTCTTTCG CCGCAGCCCG CCTGACCGGA GGCCAGATGT GCCGCCACA
 CTTGTTGCAC AGCCCGGSR025652 corrupted, moved last item to this SR.

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_001145661](#), [NM_001145662](#), [NM_002050](#), [NM_032638](#)

UniProt ID:

[P23769](#)

Synonyms:

DCML; IMD21; MONOMAC; NFE1B

Summary:

This gene encodes a member of the GATA family of zinc-finger transcription factors that are named for the consensus nucleotide sequence they bind in the promoter regions of target genes. The encoded protein plays an essential role in regulating transcription of genes involved in the development and proliferation of hematopoietic and endocrine cell lineages. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

Product images:

