

## Product datasheet for **KN204066**

### FOXA2 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:** FOXA2  
**Locus ID:** 3170  
**Components:** **KN204066G1**, FOXA2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAGGGCACGAGCCGTCGGAC  
**KN204066G2**, FOXA2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CACTCGGCTTCCAGTATGCT  
**KN204066D**, 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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**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\\_021784](#), [NM\\_153675](#)

**UniProt ID:**

[Q9Y261](#)

**Synonyms:**

HNF3B; TCF3B

**Summary:**

This gene encodes a member of the forkhead class of DNA-binding proteins. These hepatocyte nuclear factors are transcriptional activators for liver-specific genes such as albumin and transthyretin, and they also interact with chromatin. Similar family members in mice have roles in the regulation of metabolism and in the differentiation of the pancreas and liver. This gene has been linked to sporadic cases of maturity-onset diabetes of the young. Transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Oct 2008]

Product images:

