

## Product datasheet for **KN204497**

### HSD3B1 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:** HSD3B1  
**Locus ID:** 3283  
**Components:** **KN204497G1**, HSD3B1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACAGAGGATCATCCGCCTCT  
**KN204497G2**, HSD3B1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATCATCCGCCTCTTGGTGA  
**KN204497D**, 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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 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\\_000862](#), [NM\\_001328615](#)

**UniProt ID:**

[P14060](#)

**Synonyms:**

3BETAHSD; HSD3B; HSDB3; HSDB3A; I; SDR11E1

**Summary:**

The protein encoded by this gene is an enzyme that catalyzes the oxidative conversion of delta-5-3-beta-hydroxysteroid precursors into delta-4-ketosteroids, which leads to the production of all classes of steroid hormones. The encoded protein also catalyzes the interconversion of 3-beta-hydroxy- and 3-keto-5-alpha-androstane steroids. [provided by RefSeq, Jun 2016]

Product images:

