

## Product datasheet for KN200246BN

### **UGP2 Human Gene Knockout Kit (CRISPR)**

**Product data:** 

**Product Type:** Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

UGP2 Symbol: Locus ID: 7360

**KN200246G1**, UGP2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

**KN200246G2**, UGP2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN200246BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

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.

NM 001001521, NM 006759 RefSeq:

UniProt ID: Q16851

Synonyms: pHC379; UDPG; UDPGP; UDPGP2; UGP1; UGPP1; UGPP2

Summary: The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate

> interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript variants encoding different isoforms have been found for

this gene. [provided by RefSeq, Jul 2008]



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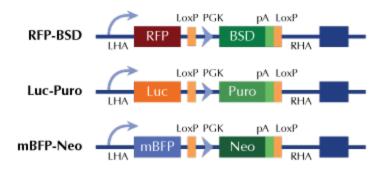
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# **Product images:**

#### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter