

# **Product datasheet for KN202434RB**

## OriGene Technologies, Inc.

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## **CTP synthase (CTPS1) Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

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

**Format:** 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

**Symbol:** CTP synthase

**Locus ID:** 1503

**Components: KN202434G1**, CTP synthase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN202434G2**, CTP synthase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN202434RBD**, donor DNA containing left and right homologous arms and RFP-BSD

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.

RefSeq: <u>NM 001301237</u>, <u>NM 001905</u>, <u>NR 125440</u>

UniProt ID: <u>P17812</u>

Synonyms: CTPS; IMD24

**Summary:** This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine

triphosphate) to CTP (cytidine triphospate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this proten is important in the

immune system, and loss of function of this gene has been associated with

immunodeficiency. Alternative splicing results in multiple transcript variants. [provided by

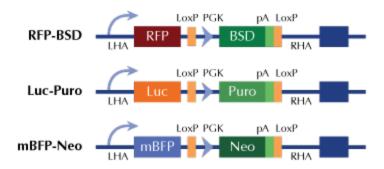
RefSeq, Jul 2014]





# **Product images:**

## Donor Vector Edited Chromosome



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