

Product datasheet for **KN202434RB**

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: [NM_001301237](#), [NM_001905](#), [NR_125440](#)

UniProt ID: [P17812](#)

Synonyms: CTPS; IMD24

Summary: This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine triphosphate) to CTP (cytidine triphosphate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this protein 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]



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Product images:

