

## Product datasheet for **KN201130RB**

### ASS1 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:	ASS1
Locus ID:	445
Components:	<b>KN201130G1</b> , ASS1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN201130G2</b> , ASS1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN201130RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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\\_000050](#), [NM\\_054012](#)

**UniProt ID:** [P00966](#)

**Synonyms:** ASS; CTLN1

**Summary:** The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]



[View online »](#)

## Product images:

