

Product datasheet for KN201130BN

ASS1 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

Symbol: ASS1 445 Locus ID:

KN201130G1, ASS1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN201130G2, ASS1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN201130BND, 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 000050, NM 054012 RefSeq:

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]



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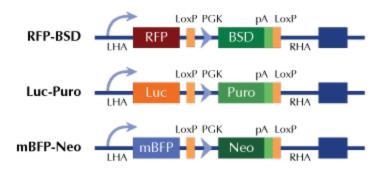
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Product images:

Donor Vector Edited Chromosome



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