

Product datasheet for KN201130LP

OriGene Technologies, Inc.

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ASS1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

Symbol: ASS1 Locus ID: 445

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

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

KN201130LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 000050</u>, <u>NM 054012</u>

UniProt ID: P00966

Synonyms: ASS; CTLN1

Summary: The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic

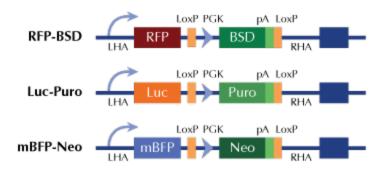
pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the

same protein have been found for this gene. [provided by RefSeq, Aug 2012]



Product images:

Donor Vector Edited Chromosome



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