

## Product datasheet for **KN204260BN**

### Acetyl CoA synthetase (ACSS2) 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:	Acetyl CoA synthetase
Locus ID:	55902
Components:	<b>KN204260G1</b> , Acetyl CoA synthetase gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN204260G2</b> , Acetyl CoA synthetase gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN204260BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo 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\\_001076552](#), [NM\\_001242393](#), [NM\\_018677](#), [NM\\_139274](#), [NR\\_028046](#)

**UniProt ID:** [Q9NR19](#)

**Synonyms:** ACAS2; ACECS; ACS; ACSA; dj1161H23.1

**Summary:** This gene encodes a cytosolic enzyme that catalyzes the activation of acetate for use in lipid synthesis and energy generation. The protein acts as a monomer and produces acetyl-CoA from acetate in a reaction that requires ATP. Expression of this gene is regulated by sterol regulatory element-binding proteins, transcription factors that activate genes required for the synthesis of cholesterol and unsaturated fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]



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## Product images:

