

Product datasheet for KN204464RB

BMAL1 (ARNTL) 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: BMAL1 406 Locus ID: KN204464G1, BMAL1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **Components:** KN204464G2, BMAL1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN204464RBD, 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 001030272, NM 001030273, NM 001178, NM 001297719, NM 001297722, NM 001297724, NM 001351804, NM 001351805, NM 001351806, NM 001351807, NM 001351808, NM 001351809, NM 001351810, NM 001351811, NM 001351812, NM 001351813, NM 001351814, NM 001351815, NM 001351816, NM 001351817, NM 001351818, NM 001351819, NM 001351820, NM 001351821, NM 001351822, NM 001351823, NM 001351824, NR 147785, NR 147786, NR 147787, NR 147788, NR 147789, NR 147790, NR 147791 **UniProt ID:** 000327 bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC Synonyms:



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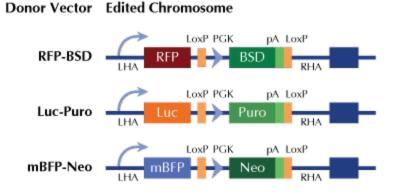
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SMAL1 (ARNTL) Human Gene Knockout Kit (CRISPR) – KN204464RB

Summary:The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer
with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1,
PER2, PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these
genes. PER and CRY proteins heterodimerize and repress their own transcription by
interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been
linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep
patterns. Several transcript variants encoding different isoforms have been found for this
gene. [provided by RefSeq, Jul 2014]

Product images:



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

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