

Product datasheet for KN204464BN

BMAL1 (ARNTL) 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: 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) KN204464BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. GE100003, scramble sequence in pCas-Guide vector NM 001030272, NM 001030273, NM 001178, NM 001297719, NM 001297722, RefSeq: 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 Synonyms: bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC 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]



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Product images:



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

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