

Product datasheet for RC207870L1V

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

BMAL1 (ARNTL) (NM 001178) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: BMAL1 (ARNTL) (NM_001178) Human Tagged ORF Clone Lentiviral Particle

Symbol: ARNTL

Synonyms: bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC

Mammalian Cell

Selection:

None

Vector: pLenti-C-Myc-DDK (PS100064)

 Tag:
 Myc-DDK

 ACCN:
 NM_001178

 ORF Size:
 1875 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC207870).

Sequence:

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

RefSeg: NM 001178.4

 RefSeq Size:
 2863 bp

 RefSeq ORF:
 1878 bp

 Locus ID:
 406

 UniProt ID:
 000327

 Cytogenetics:
 11p15.3

Domains: PAS, HLH, PAC

Protein Families: Druggable Genome, Transcription Factors





Protein Pathways: Circadian rhythm - mammal

MW: 68.7 kDa

Gene 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]