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Product datasheet for TL314656

BMAL1 (ARNTL) Human shRNA Plasmid Kit (Locus ID 406)

Product data:

Product Type:	shRNA Plasmids
Product Name:	BMAL1 (ARNTL) Human shRNA Plasmid Kit (Locus ID 406)
Locus ID:	406
Synonyms:	bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	ARNTL - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 406). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
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, NM 001030273.1, NM 001030273.2, NM 001178.1, NM 001178.2, NM 001178.3, NM 001178.4, NM 001178.5, NM 001030272.1, NM 001030272.2, NM 001297724.1, NM 001297719.1, NM 001297722.1, BC016674, BC016674.1, BC041129, BC041129.1, BC031214, NM 001297719.2
UniProt ID:	<u>000327</u>

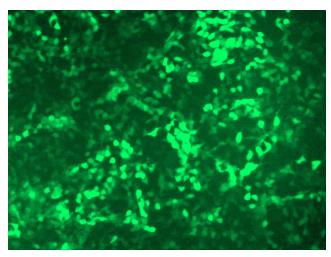


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	BMAL1 (ARNTL) Human shRNA Plasmid Kit (Locus ID 406) – TL314656
Summary:	The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, 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]
shRNA Design:	These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u> . If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u> .
Performance Guaranteed:	OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.
	For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data

Product images:

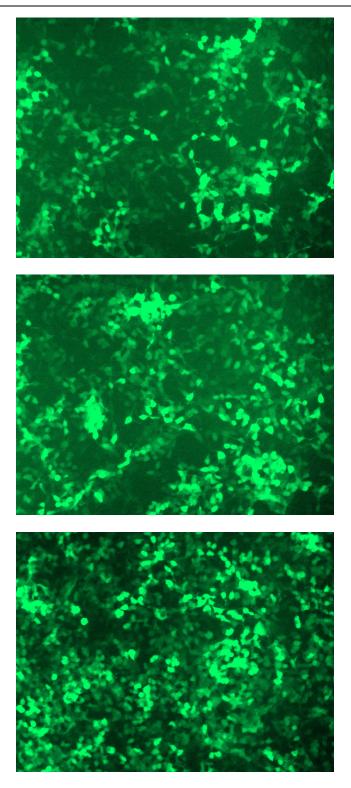
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preferred).

GFP signal was observed under microscope at 48 hours after transduction of TL314656A virus into HEK293 cells. TL314656A virus was prepared using lenti-shRNA TL314656A and [TR30037] packaging kit.

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GFP signal was observed under microscope at 48 hours after transduction of TL314656B virus into HEK293 cells. TL314656B virus was prepared using lenti-shRNA TL314656B and [TR30037] packaging kit.

GFP signal was observed under microscope at 48 hours after transduction of [TL314656C] virus into HEK293 cells. [TL314656C] virus was prepared using lenti-shRNA [TL314656C] and [TR30037] packaging kit.

GFP signal was observed under microscope at 48 hours after transduction of [TL314656D] virus into HEK293 cells. [TL314656D] virus was prepared using lenti-shRNA [TL314656D] and [TR30037] packaging kit.

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