

Product datasheet for **SC207071**

BMAL1 (ARNTL) (NM_001178) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: BMAL1 (ARNTL) (NM_001178) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: ARNTL
Synonyms: bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC
ACCN: NM_001178
Insert Size: 540 bp
Insert Sequence: >SC207071 3'UTR clone of NM_001178
The sequence shown below is from the reference sequence of NM_001178. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GACTTTAGTGACTTGCCATGGCCGCTGTAAACACTACATGTTGCTTTGGCAACAGCTATAGTATCAAAAG
TGCATTACTGGTGGAGTTTTACAGTCTGTGAAGCTTACTGGATAAGGAGAGAATAGCTTTTATGTACTG
ACTTCATAAAAAGCCATCTCAGAGCCATTGATACAAGTCAATCTTACTATATGTAACCTCAGACAAAAGTG
GAACTAAGCCTGCTCCAGTGTTCCTCATCATTGATTATTGGGCTAGCTGTGGATAGCTTGCAATTAATT
GTATATTTGGATTCTGTTGTGTTGAATTTTTAATCATTGTGCACAGAAGCATCATTGGTAGCTTTT
ATATGCAAATGGTCATTTAGATGTATGGTGTGTTTACACTACAAAGAAGTCCCCCATGTGGATATTTT
TTATACTAATTGTATCATAAAGCCGTTTATTCTCCTTGAAGAATCCTTACTATAAATATGGGTTAA
AGTATAATGTACTAGACAGTTAAATATTTTAAATGTTTCCCTTGTCTATAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_001178.6](#)



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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]

Locus ID:

406

MW:

20.5