

# Recombinant Human ARNTL Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** ARNTL-815H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	ARNTL MS Standard C13 and N15-labeled recombinant protein (NP_001169) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	68.7 kDa
<b>AA Sequence</b>	MADQRMDISSTISDFMSPGPTDLLSSSLGTSGVDCNRKRKGSSTDYQESMDTDKD DPHGRLEYTEHQGRIKNAREAHSQIEKRRRDKMNSFIDELASLVPTCNAMSRKLDKL TVLRMAVQHMKTLRGATNPYTEANYKPTFLSDELKHLILRAADGFLFVVGCDRGKI LFVSESVFKILNYSQNDLIGQSLFDYLHPKDIKVKEQLSSSDTAPRERLIDAKTGLPV KTDITPGPSRLCSGARRSFFCRMKCNRPSVKVEDKDFPSTCSKKKDRKSFCTIHST

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GYLKSWPPTKMGLDEDNEPDNEGCNLSCLVAIGRLHSHVVPQPVNGEIRVKSMEYV  
 SRHAIDGKGFVVDQRATAILAYLPQELLGTSCYEYFHQDDIGHLAECHRQVLQTREKI  
 TTNCYKFKIKDGSFITLRSRWFSFMNPWTKEVEYIVSTNTVVLANVLEGGDPTFPQLT  
 ASPHSMDSMLPSGEGGPKRTHPTVPGIPGGTRAGAGKIGRMIAEEIMEIHRIRGSSP  
 SSCGSSPLNITSTPPPDASSPGGKILNGGTPDIPSSGLLSGQAQENPGYPYSDSSSI  
 LGENPHIGIDMIDNDQGSSSPSNDEAAMAVIMSLLEADAGLGGPVDFSDLPWPLTRT  
 RPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** [ARNTL aryl hydrocarbon receptor nuclear translocator-like \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [ARNTL](#)

**Synonyms**

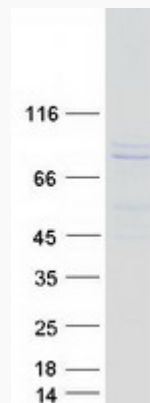
ARNTL; aryl hydrocarbon receptor nuclear translocator-like; aryl hydrocarbon receptor nuclear translocator-like protein 1; bHLHe5; BMAL1; JAP3; MOP3; PASD3; bHLH-PAS protein JAP3; member of PAS protein 3; member of PAS superfamily 3; brain and muscle ARNT-like 1; PAS domain-containing protein 3; ARNT-like protein 1, brain and muscle; basic-helix-loop-helix-PAS orphan MOP3; basic-helix-loop-helix-PAS protein MOP3; class E basic helix-loop-helix protein 5; TIC; BMAL1c;

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MGC47515;

**Gene ID** 406**mRNA Refseq** NM\_001178**Protein Refseq** NP\_001169**MIM** 602550**UniProt ID** O00327**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA