

# Recombinant Full Length Human ARNTL2 Protein, GST-tagged

**Cat. No.** ARNTL2-1251HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ARNTL2 full-length ORF (AAH00172.3, 1 a.a. - 579 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	579 amino acids
<b>Description</b>	This gene encodes a basic helix-loop-helix transcription factor belonging to the PAS (PER, ARNT, SIM) superfamily. The PAS proteins play important roles in adaptation to low atmospheric and cellular oxygen levels, exposure to certain environmental pollutants, and diurnal oscillations in light and temperature. This protein forms a transcriptionally active heterodimer with the circadian CLOCK protein, the structurally related MOP4, and hypoxia-inducible factors, such as HIF1alpha. Consistent with its role as a biologically relevant partner of circadian and hypoxia factors, this protein is coexpressed in regions of the brain such as the thalamus, hypothalamus, and amygdala. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]
<b>Molecular Mass</b>	90.09 kDa
<b>AA Sequence</b>	MGKVLREENQ CIAPVVSSRV SPGTRPTAMG SFSSHMTTEFP RKRKGSDDSDP SQAHSQTEK RRRDKMNNLI EELSAMIPQC NPMARKLDKL TVLRMAVQHL RSLKGLTNSY VGSNYRPSFL QDNELRHLIL KTAEGFLFVV GCER GKILFV

 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

SKSVSKILNY DQASLTGQSL FDFLHPKDVA KVKEQLSSFD ISPREKLIDA  
 KTGLQVHSNL HAGRTRVYSG SRRSFFCRIK SCKISVKEEH GCLPNSKKKE  
 HRKFYTIHCT GYLRSWPPNI VGMEEERNSK KDNSNFTCLV AIGRLQPYIV  
 PQNSGEINVK PTEFITRFAV NGKFVYVDQR ATAILGYLPQ ELLGTSCYEY  
 FHQDDHNNLT DKHKAVLQSK EKILTDSYKF RAKDGSFVTL KSQWFSFTNP  
 WTKELEYIVS VNTLVLGHSE PGEASFLPCS SQSSEESSRQ SCMSVPGMST  
 GTVLGAGSIG TDIANEILD L QRLQSSSYLD DSSPTGLMKD THTVNCRSMS  
 NKELFPPSPS EMGELEATRQ NQSTVAVHSH EPLLSDGAQL DFDALCDNDD  
 TAMA AFMNYL EAEGGLGDPG DFSDIQWTL

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[ARNTL2 aryl hydrocarbon receptor nuclear translocator-like 2 \[ Homo sapiens \]](#)

**Official Symbol**

[ARNTL2](#)

**Synonyms**

ARNTL2; aryl hydrocarbon receptor nuclear translocator-like 2; aryl hydrocarbon receptor nuclear translocator-like protein 2; bHLHe6; BMAL2; CLIF; MOP9; PASD9; CYCLE-like factor; member of PAS protein 9; transcription factor BMAL2; brain and muscle ARNT-like 2; PAS domain-containing protein 9; basic-helix-loop-helix-PAS protein MOP9; class E basic helix-loop-helix protein 6; MGC149671; MGC149672

**Gene ID**

[56938](#)

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mRNA Refseq	NM_001248002
Protein Refseq	NP_001234931
MIM	614517
UniProt ID	Q8WYA1

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