

## Recombinant Human ARNTL2 protein, GST-tagged

Cat. No. ARNTL2-843H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human ARNTL2 full-length ORF (AAH00172.3, 1 a.a. - 579 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** Wheat Germ

**Description** 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]

**Molecular Mass** 90.09 kDa

**AA Sequence** MGKVLREENQCIAPVVSSRVSPGTRPTAMGSFSSHMTFPRKRKGS DSDPSQEAH  
SQTEKRRRDKMNNLIEELSAMIPQCNPMARKLDKLTVLRMAVQHLSLKGLTNSYV  
GSNYRPSFLQDNELRHLILKTAEGFLFVVG CERGKILFVSKSVSKILNYDQASLTGQS  
LDFDLHPKDVAKVKEQLSSFDISP REKLIDAKTGLQVHSNLHAGRTRVYSGSRRSFF

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CRIKSCKISVKEEHGCLPNSKKKEHRKFYTIHCTGYLRSWPPNIVGMEEERNSKKDN  
 SNFTCLVAIGRLQPYPVQNSGEINVKPTFIFTRFAVNGKFVYVDQRATAILGYLPQEL  
 LGTSCYEYFHQDDHNNLTDKHKAVLQSKEKILTDSYKFRAKDGSFVTLKSQWFSFT  
 NPWTKELEYIVSVNTLVLGHSEPGEASFLPCSSQSSEESSRQSCMSVPGMSTGTVL  
 GAGSIGTDIANEILDQLRLQSSSYLDDSSPTGLMKDTHTVNCRSMSNKELFPPSPSE  
 MGELEATRQNSTVAVHSHEPLLSDGAQLDFDALCDNDDTAMAAFMNYLEAEGGL  
 GDPGDFSDIQWTL

**Applications**

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

**Notes**

Best use within three months from the date of receipt of this protein.

**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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<b>mRNA Refseq</b>	NM_001248002
<b>Protein Refseq</b>	NP_001234931
<b>MIM</b>	614517
<b>UniProt ID</b>	Q8WYA1

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