

## Product datasheet for **TP307870M**

### **BMAL1 (ARNTL) (NM\_001178) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aryl hydrocarbon receptor nuclear translocator-like (ARNTL), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207870 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MADQRMDISSTISDFMSPGPTDLLSSSLGTSGVDCNRKRKGSSTDYQESMDTDKDDPHGRLEYTEHQGRI  
KNAREAHSQIEKRRRDKMNSFIDELASLVPTCNAMSRKLDKLTVLRMAVQHMKTLRGATNPYTEANYKPT  
FLSDDELKHLILRAADGFLFVVGCDRGKILFVSESVFKILNYSQNDLIGQSLFDYLHPKDIKAKVKEQLSS  
SDTAPRERLIDAKTGLPVKTDITPGPSRLCSGARRSFFCRMKCNRPVSVKVEDKDFPSTCSKKKDRKSFCT  
IHSTGYLKSWPPTKMGLDEDNEPDNEGCNLSCLVAIGRLHSHVVPQPVNGEIRVKSMEYVSRHAIDGKFV  
FVDQRATAILAYLPQELLGTSCYEYFHQDDIGHLAECHRQVLQTREKITTNCYKFKIKDGSFITLRSRWF  
SFMNPWTKEVEYIVSTNTVLANVLEGGDPTFPQLTASPHSMDSMLPSGEGGPKRTHPTVPGIPGGTRAG  
AGKIGRMIAEEIMEIHRIRGSSPSSCGSSPLNITSTPPPDASSPGGKILNNGGTPDIPSSGLLSGQAQEN  
PGYPYSDSSSILGENPHIGIDMIDNDQGSSSPSNDAAAMAVIMSLLEADAGLGGPVDFSDLPWPL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

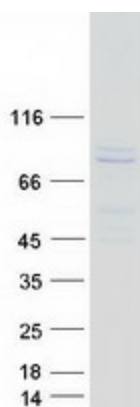
Tag:	C-Myc/DDK
Predicted MW:	68.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001169</a>
<b>Locus ID:</b>	406
<b>UniProt ID:</b>	<a href="#">O00327</a> , <a href="#">A0A140VKD3</a>
<b>RefSeq Size:</b>	2863
<b>Cytogenetics:</b>	11p15.3
<b>RefSeq ORF:</b>	1875
<b>Synonyms:</b>	bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC
<b>Summary:</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. [provided by RefSeq, Jul 2014]
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Circadian rhythm - mammal

### Product images:



Coomassie blue staining of purified ARNTL protein (Cat# [TP307870]). The protein was produced from HEK293T cells transfected with ARNTL cDNA clone (Cat# [RC207870]) using MegaTran 2.0 (Cat# [TT210002]).