

Product datasheet for **MR224577L3V**

Arntl2 (NM_172309) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Arntl2 (NM_172309) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Arntl2
Synonyms:	4632430A05Rik; bHLHe6; BMAL2; CLIF; MOP9
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_172309
ORF Size:	1737 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224577).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_172309.2 , NP_758513.1
RefSeq Size:	1740 bp
RefSeq ORF:	1740 bp
Locus ID:	272322
UniProt ID:	Q2VPD4
Cytogenetics:	6 G3



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Gene Summary:

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, Feb 2014]