

## Product datasheet for MR227373L3

## OriGene Technologies, Inc.

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## Arnt (NM\_009709) Mouse Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Arnt (NM\_009709) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Arnt

Synonyms: bHLHe2; D3Ertd557e; Drnt; ESTM42; Hif1b; mKIAA4051; W08714

Mammalian Cell Puromycin

Selection:

**Vector:** pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this close

Sequence:

The ORF insert of this clone is exactly the same as(MR227373).

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_009709

ORF Size: 2328 bp



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**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** NM 009709.4, NP 033839.2

RefSeq Size: 4325 bp RefSeq ORF: 2331 bp Locus ID: 11863

Cytogenetics: 3 40.74 cM

**Gene Summary:** Required for activity of the Ah (dioxin) receptor. This protein is required for the ligand-binding

subunit to translocate from the cytosol to the nucleus after ligand binding. The complex then

initiates transcription of genes involved in the activation of PAH procarcinogens (By similarity). The heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator

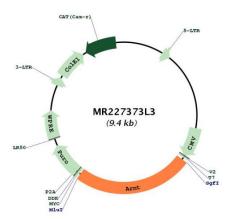
of the adaptive response to hypoxia (PubMed:26245371, PubMed:27782878). The

heterodimer ARNT:AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription (PubMed:28602820).

[UniProtKB/Swiss-Prot Function]



# **Product images:**



Circular map for MR227373L3