

Product datasheet for **RC211966L3V**

ARNT2 (NM_014862) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ARNT2 (NM_014862) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ARNT2
Synonyms:	bHLHe1; WEDAS
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_014862
ORF Size:	2151 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211966).
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_014862.3 , NP_055677.3
RefSeq Size:	6576 bp
RefSeq ORF:	2154 bp
Locus ID:	9915
UniProt ID:	Q9HBZ2
Cytogenetics:	15q25.1
Domains:	PAS, HLH, PAC
Protein Families:	Druggable Genome, Transcription Factors



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Protein Pathways: Pathways in cancer, Renal cell carcinoma

MW: 78.5 kDa

Gene Summary: This gene encodes a member of the basic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily of transcription factors. The encoded protein acts as a partner for several sensor proteins of the bHLH-PAS family, forming heterodimers with the sensor proteins that bind regulatory DNA sequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein in mouse forms functional complexes with both aryl hydrocarbon receptors and Single-minded proteins, suggesting additional roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively. [provided by RefSeq, Dec 2013]