

## Product datasheet for **RC203490L2V**

### ATIC (NM\_004044) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	ATIC (NM_004044) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ATIC
Synonyms:	AICAR; AICARFT; HEL-S-70p; IMPCHASE; PURH
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_004044
ORF Size:	1776 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC203490).
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. <a href="#">More info</a>
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:	<a href="#">NM_004044.4</a>
RefSeq Size:	2094 bp
RefSeq ORF:	1779 bp
Locus ID:	471
UniProt ID:	<a href="#">P31939</a>
Cytogenetics:	2q35
Domains:	AICARFT_IMPCHas, MGS
Protein Families:	Stem cell - Pluripotency



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**Protein Pathways:** Metabolic pathways, One carbon pool by folate, Purine metabolism

**MW:** 64.6 kDa

**Gene Summary:** This gene encodes a bifunctional protein that catalyzes the last two steps of the de novo purine biosynthetic pathway. The N-terminal domain has phosphoribosylaminoimidazolecarboxamide formyltransferase activity, and the C-terminal domain has IMP cyclohydrolase activity. A mutation in this gene results in AICA-ribosiduria. [provided by RefSeq, Sep 2009]