

## Product datasheet for **RC215130L4V**

### Adenylate Kinase 1 (AK1) (NM\_000476) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Adenylate Kinase 1 (AK1) (NM_000476) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Adenylate Kinase 1
Synonyms:	HTL-S-58j
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000476
ORF Size:	582 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215130).
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_000476.1</a>
RefSeq Size:	2271 bp
RefSeq ORF:	585 bp
Locus ID:	203
UniProt ID:	<a href="#">P00568</a>
Cytogenetics:	9q34.11
Domains:	ADK
Protein Families:	Druggable Genome



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**Protein Pathways:** Metabolic pathways, Purine metabolism

**MW:** 21.5 kDa

**Gene Summary:** This gene encodes an adenylate kinase enzyme involved in energy metabolism and homeostasis of cellular adenine nucleotide ratios in different intracellular compartments. This gene is highly expressed in skeletal muscle, brain and erythrocytes. Certain mutations in this gene resulting in a functionally inadequate enzyme are associated with a rare genetic disorder causing nonspherocytic hemolytic anemia. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]