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# Product datasheet for RC220572L1V

## AK3L1 (AK4) (NM_013410) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | AK3L1 (AK4) (NM_013410) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | AK3L1 |
| **Synonyms:** | AK3; AK3L1; AK3L2; AK 4 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-Myc-DDK (PS100064) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_013410 |
| **ORF Size:** | 669 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC220572). |
| **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_013410.2 |
| **RefSeq Size:** | 2199 bp |
| **RefSeq ORF:** | 672 bp |
| **Locus ID:** | 205 |
| **UniProt ID:** | P27144 |
| **Cytogenetics:** | 1p31.3 |
| **Domains:** | ADK, ADK_lid |
| **Protein Families:** | Druggable Genome |

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

**MW:** 25.1 kDa

**Gene Summary:** This gene encodes a member of the adenylate kinase family of enzymes. The encoded protein is localized to the mitochondrial matrix. Adenylate kinases regulate the adenine and guanine nucleotide compositions within a cell by catalyzing the reversible transfer of phosphate group among these nucleotides. Five isozymes of adenylate kinase have been identified in vertebrates. Expression of these isozymes is tissue-specific and developmentally regulated. A pseudogene for this gene has been located on chromosome 17. Three transcript variants encoding the same protein have been identified for this gene. Sequence alignment suggests that the gene defined by NM_013410, NM_203464, and NM_001005353 is located on chromosome 1. [provided by RefSeq, Jul 2008]