

Product datasheet for **RC225674L4V**

Cyclin A1 (CCNA1) (NM_001111047) Human Tagged ORF Clone Lentiviral Particle

Product data:

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| Product Type: | Lentiviral Particles |
| Product Name: | Cyclin A1 (CCNA1) (NM_001111047) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | Cyclin A1 |
| Synonyms: | CT146 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001111047 |
| ORF Size: | 1395 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC225674). |
| 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_001111047.1 , NP_001104517.1 |
| RefSeq Size: | 1841 bp |
| RefSeq ORF: | 1266 bp |
| Locus ID: | 8900 |
| UniProt ID: | P78396 |
| Cytogenetics: | 13q13.3 |
| Protein Families: | Druggable Genome |



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|--------------------------|--|
| Protein Pathways: | Acute myeloid leukemia, Cell cycle, Pathways in cancer, Progesterone-mediated oocyte maturation |
| MW: | 52.2 kDa |
| Gene Summary: | <p>The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. The cyclin encoded by this gene was shown to be expressed in testis and brain, as well as in several leukemic cell lines, and is thought to primarily function in the control of the germline meiotic cell cycle. This cyclin binds both CDK2 and CDC2 kinases, which give two distinct kinase activities, one appearing in S phase, the other in G2, and thus regulate separate functions in cell cycle. This cyclin was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> |