

## **Product datasheet for RC216513L1**

#### OriGene Technologies, Inc.

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### Aurora A (AURKA) (NM\_198434) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Aurora A (AURKA) (NM\_198434) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Aurora A

Synonyms: AIK; ARK1; AURA; BTAK; PPP1R47; STK6; STK7; STK15

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC216513).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_198434

ORF Size: 1209 bp





#### Aurora A (AURKA) (NM\_198434) Human Tagged Lenti ORF Clone - RC216513L1

**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.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

**RefSeq:** <u>NM 198434.1</u>

RefSeq Size:2245 bpRefSeq ORF:1212 bpLocus ID:6790

 UniProt ID:
 O14965

 Cytogenetics:
 20q13.2

**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency

**Protein Pathways:** Oocyte meiosis

MW: 45.8 kDa

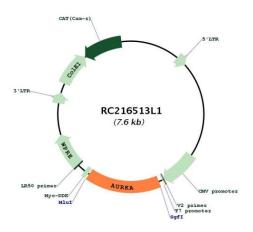
**Gene Summary:** The protein encoded by this gene is a cell cycle-regulated kinase that appears to be involved

in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the

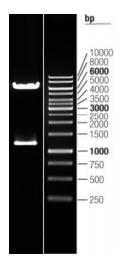
same protein have been found for this gene. [provided by RefSeq, Jul 2008]



# **Product images:**



Circular map for RC216513L1



Double digestion of RC216513L1 using Sgfl and Mlul