

## Product datasheet for RC201583

### Aurora A (AURKA) (NM\_198435) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora A (AURKA) (NM_198435) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aurora A
Synonyms:	AIK; ARK1; AURA; BTAK; PPP1R47; STK6; STK7; STK15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201583 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAAC  
GTGTTCTCGTACTCAGCAATTTCTTGTGAGAATCCATTACCTGTAATAGTGGCCAGGCTCAGCGGT  
CTTGTGTCCTTCAAATTTCCAGCGCTTCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCG  
GTTCAGAATCAGAAGCAGAAGCAATTGCAGGCAACCAAGTGTACCTCATCTGTCTCCAGGCCACTGAATA  
ACACCCAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAATAATCTGAGGAGGAACGGCATCAAA  
ACAGAAAAATGAAGAATCAAAAAGAGGCAAGTGGGCTTTGGAAGACTTTGAAATGGTCGCCCTCTGGGT  
AAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAGCAAAGCAAGTTTATTCTGGCTCTTAAAGTGT  
TATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGAGAAGTAGAAATACAGTCCCA  
CCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCTACCAGAGTCTACCTAATTCTG  
GAATATGCACCACTTGGAAACAGTTTATAGAGAATTCAGAAAATTTCAAAGTTTGGATGAGCAGAGAACTG  
CTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTTCATTCGAAGAGAGTTATTCATAGAGACAT  
TAAGCCAGAGAATTAATCTTGGATCAGCTGGAGAGCTTAAAATGCAGATTTTGGGTGGTCAGTACAT  
GCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCCTGGACTACCTGCCCTGAAATGATTGAAGGTC  
GGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTGGTGGGAAGCC  
TCCTTTTGGGCAAAACACATACCAAGAGACCTACAAAAGAATATCACGGTTGAATTCACATTTCCCTGAC  
TTTGTAACAGAGGGAGCCAGGGACCTCATTTCAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGC  
TCAGAGAAGTACTTGAACACCCCTGGATCACAGCAAATTCATCAAACCATCAAATGGCCAAAACAAAGA  
ATCAGCTAGCAAACAGTCT

**ACGGT**ACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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:** [NM\\_198435.3](#)

**RefSeq Size:** 2135 bp

**RefSeq ORF:** 1212 bp

**Locus ID:** 6790

**UniProt ID:** [O14965](#)

**Cytogenetics:** 20q13.2

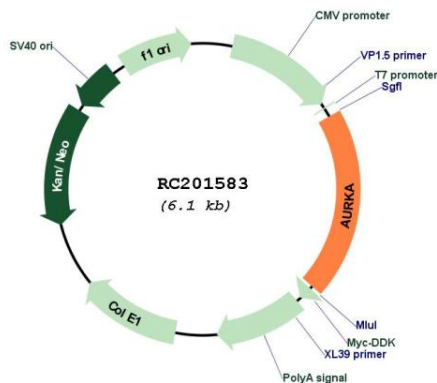
**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency

**Protein Pathways:** Oocyte meiosis

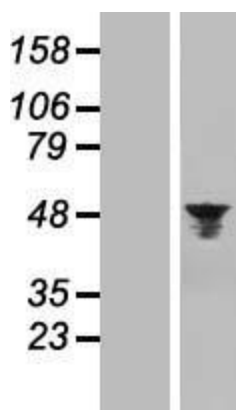
**MW:** 45.8 kDa

**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 RC201583



Western blot validation of overexpression lysate (Cat# [LY418569]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC216460] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).