

## Product datasheet for **RG212018**

### Aurora A (AURKA) (NM\_198433) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora A (AURKA) (NM_198433) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aurora A
Synonyms:	AIK; ARK1; AURA; BTAK; PPP1R47; STK6; STK7; STK15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212018 representing NM_198433 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAAC  
GTGTTCTCGTACTCAGCAATTTCTTGTGAGAATCCATTACCTGTAATAGTGGCCAGGCTCAGCGGT  
CTTGTGTCCTTCAAATTTCCAGCGCTTCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCG  
GTTCAGAATCAGAAGCAGAAGCAATTGCAGGCAACCAAGTGTACCTCATCTGTCTCCAGGCCACTGAATA  
ACACCCAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAATAATCCTGAGGAGGAACGGCATCAAA  
ACAGAAAAATGAAGAATCAAAAAAGAGGAGTGGGCTTTGGAAGACTTTGAAATGGTCGCCCTCTGGGT  
AAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAGCAAAGCAAGTTTATTCTGGCTCTTAAAGTGT  
TATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGAGAAGTAGAAATACAGTCCCA  
CCTTCGGCATCCTAATATTCTTAGACTGTATGTTATTTCCATGATGCTACCAGAGTCTACCTAATTCTG  
GAATATGCACCACTTGGAAACAGTTTATAGAGAATTCAGAAAATTTCAAAGTTTGATGAGCAGAGAAGT  
CTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTTCATTCGAAGAGAGTTATTCATAGAGACAT  
TAAGCCAGAGAAGTACTTCTTGGATCAGCTGGAGAGCTTAAAATGCAGATTTTGGGTGGTCAGTACAT  
GCTCCATCTTCCAGGAGGACCACTCTGTGGCACCTGGACTACCTGCCCTGAAATGATTGAAGGTC  
GGATGCATGATGAGAAGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTAGTTGGGAAGCC  
TCCTTTTGGGCAAAACACATACCAAGAGACCTACAAAAGAATATCACGGTTGAATTCACATTCCCTGAC  
TTTGTAACAGAGGGAGCCAGGGACCTCATTTCAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGC  
TCAGAGAAGTACTTGAACACCCCTGGATCACAGCAAATTCATCAAACCATCAAATGGCCAAAACAAAGA  
ATCAGCTAGCAAACAGTCT

**ACGGT**ACGGGCCGCTCGAG - GFP Tag - GTTTAA



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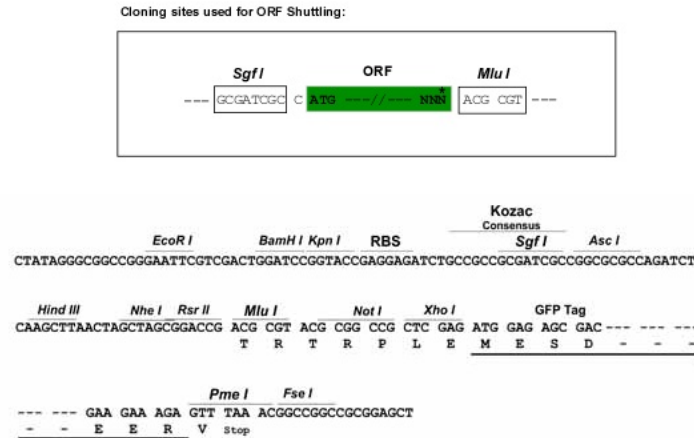
**Protein Sequence:** >RG212018 representing NM\_198433  
 Red=Cloning site Green=Tags(s)

MDRSKENCISGPVKATAPVGGPKRVLVTQQFPCQNPLPVNSGQAQRVLCPSNSSQRVPLQAQKLVSSHKP  
 VQNQKQKQLQATSVPHVSRPLNNTQKSKQPLPSAPENNP EELASKQKNEESKKRQWALEDFEIGRPLG  
 KGKFGNYYLAREKQSKFILALKVLFKAQLEKAGVEHQLRREVEIQSHLRHPNLRLYGYFHDATRVYLIL  
 EYAPLGTVYRELQKLSKFDEQRTATYITELANALSYCHSKRVIHRDIKPENLLLSAGELKIADFGWSVH  
 APSRRITLTCGLDYLPPMIEGRMHDEKVDLWSLGVLCYEFVGVKPPFEANTYQETYKRISRVEFTFPD  
 FVTEGARDLISRLLKHNPSPQRMLREVLEHPWITANSSKPSNCQNKESASKQS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198433

**ORF Size:** 1209 bp

**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:** [NM\\_198433.3](#)

**RefSeq Size:** 2554 bp

**RefSeq ORF:** 1212 bp

**Locus ID:** 6790

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

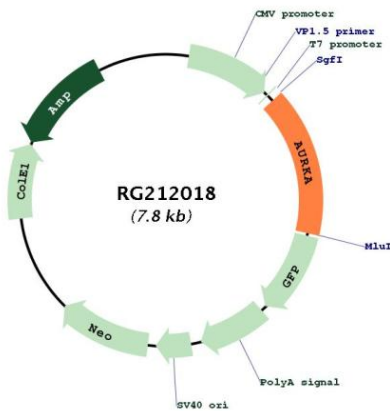
**Cytogenetics:** 20q13.2

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

**Protein Pathways:** Oocyte meiosis

**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 RG212018