

## Product datasheet for **RC403786**

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

#### Product data:

Product Type:	Mutant ORF Clones
Product Name:	Aurora A (AURKA) (NM_198433) Human Mutant ORF Clone
Mutation Description:	v57I
Affected Codon#:	57
Affected NT#:	169
Nucleotide Mutation:	AURKA Mutant (v57I), Myc-DDK-tagged ORF clone of Homo sapiens aurora kinase A (AURKA), transcript variant 1 as transfection-ready DNA
Effect:	Oesophageal cancer, association with
Symbol:	AURKA
Synonyms:	AIK; ARK1; AURA; BTAK; PPP1R47; STK6; STK7; STK15
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_198433
ORF Size:	1209 bp
Restriction Sites:	Sgfl-MluI



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**ORF Nucleotide Sequence:**

>RC403786 representing NM\_198433  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAAC  
 GTGTTCTCGTGAAGCAGCAATTTCTTGTGAGAATCCATTACCTGTAAATAGTGCCAGGCTCAGCGGGT  
 CTTGTGTCCTTCAAATTTCTCCAGCGCATTCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCG  
 GTTCAGAATCAGAAGCAGAAGCAATTGCAGGCAACCAAGTGTACCTCATCTGTCTCCAGGCCACTGAATA  
 ACACCCAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAA  
 ACAGAAAAATGAAGAATCAAAAAGAGGCGAGTGGGCTTTGGAAGACTTTGAAATTTGGTCCGCTCTGGGT  
 AAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAGCAAAGCAAGTTTATTCTGGCTCTAAAGTGT  
 TATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGAGAAGTAGAAATACAGTCCCA  
 CCTTCGGCATCCTAATTTCTTAGACTGTATGGTTATTTCCATGATGCTACCAGAGTCTACCTAATTCTG  
 GAATATGCACCACTTGGAAACAGTTTATAGAGAAGTTCAGAAAATTTCAAAGTTTATGATGAGCAGAGAAGT  
 CTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTCATTGCAAGAGAGTTATTATAGAGACAT  
 TAAGCCAGAGAAGTACTTCTTGGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCAATACAT  
 GCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCTGGACTACCTGCCCCCTGAAATGATTGAAGGTC  
 GGATGCATGATGAGAAGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTAGTTGGGAAGCC  
 TCCTTTTGGAGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTTGAATTCACATTCCTGAC  
 TTTGTAACAGAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGC  
 TCAGAGAAGTACTTGAACACCCCTGGATCACAGCAAATTCATCAAACCATCAAATTTGCCAAAACAAAGA  
 ATCAGCTAGCAAACAGTCT

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC403786 representing NM\_198433  
 Red=Cloning site Green=Tags(s)

MDRSKENCISGPVKATAPVGGPKRVLVTQQFPCQNPLPVNSGQAQRVLCPSNSSQRIPQAQKLVSHPK  
 VQNQKQKQLQATSVPHVSRPLNNTQKSKQPLPSAPENNPEEELASKQKNEESKKRQWALEDFEIGRPLG  
 KGKFGNYYLAREKQSKFILALKVLFKAQLEKAGVEHQLRREVEIQSHLRHPNLRLYGYFHDATRYVIL  
 EYAPLGTVYRELQKLSKFDEQRTATYITELANALSYCHSKRVIHRDIKPENLLLSAGELKIADFGWSVH  
 APSSRRITLTCGLDYLPEMIEGRMHDEKVDLWSLGVLCYEFVVGKPPFEANTYQETYKRISRVEFTFPD  
 FVTEGARDLISRLLKHNPSQRPMLREVLEHPWITANSSKPSNCQNKESASKQS

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

**RefSeq:**

[NP\\_940835](#)

**RefSeq Size:**

1209 bp

**RefSeq ORF:**

1212 bp

**Locus ID:**

6790

**Cytogenetics:**

20q13.2

**Protein Families:**

Druggable Genome, Protein Kinase, Stem cell - Pluripotency

**Protein Pathways:**

Oocyte meiosis

**MW:**

44.3 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]