

Product datasheet for **RC403785**

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:	F31I
Affected Codon#:	31
Affected NT#:	91
Nucleotide Mutation:	AURKA Mutant (F31I), 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-Mlul



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ORF Nucleotide Sequence:

>RC403785 representing NM_198433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAAC
 GTGTTCTCGTGAAGCAAAATTCCTTGTGAGAATCCATTACCTGTAAATAGTGCCAGGCTCAGCGGGT
 CTTGTGTCCTTCAAATTCCTCCAGCGCATTCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCG
 GTTCAGAATCAGAAGCAGAAGCAATTGCAGGCAACCAAGTGTACCTCATCTGTCTCCAGGCCACTGAATA
 ACACCCAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAA
 ACAGAAAAATGAAGAATCAAAAAGAGGCAAGTGGGCTTTGGAAGACTTTGAAATTTGGTCCGCTCTGGGT
 AAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAGCAAAGCAAGTTTATTCTGGCTCTAAAGTGT
 TATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGAGAAGTAGAAATACAGTCCCA
 CCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCTACCAGAGTCTACCTAATTCTG
 GAATATGCACCACTTGGAAACAGTTTATAGAGAAGTTCAGAAAATTTCAAAGTTTATGATGAGCAGAGAAGT
 CTACTTATATAACAGAATTGGCAAAATGCCCTGTCTTACTGTCATTGCAAGAGAGTTATTATAGAGACAT
 TAAGCCAGAGAAGTACTTCTTGGATCAGCTGGAGAGCTTAAAATTCAGATTTTGGGTGGTTCAGTACAT
 GCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCTGGACTACCTGCCCCCTGAAATGATTGAAGGTC
 GGATGCATGATGAGAAGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTAGTTGGGAAGCC
 TCCTTTTGGAGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTTGAATTCACATTCCTGAC
 TTTGTAACAGAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGC
 TCAGAGAAGTACTTGAACACCCCTGGATCACAGCAAATTCATCAAACCATCAAATGCCAAAACAAAGA
 ATCAGCTAGCAAACAGTCT

AG**GCGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

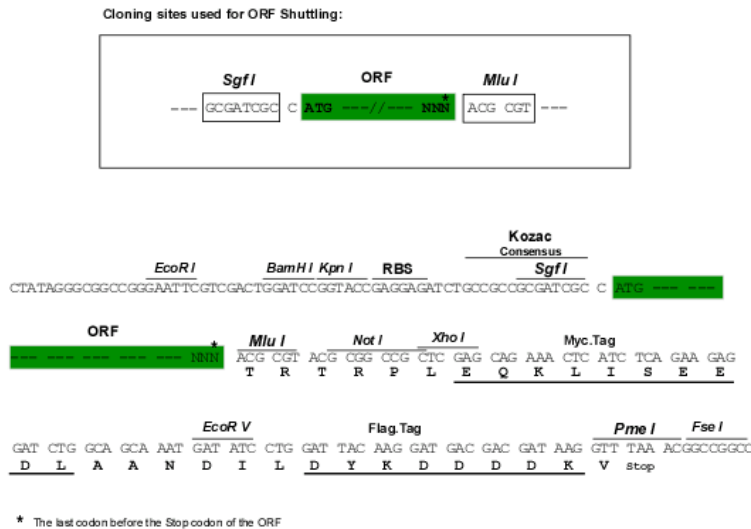
>RC403785 representing NM_198433
 Red=Cloning site Green=Tags(s)

MDRSKENCISGPVKATAPVGGPKRVLVTQQIPCQNPLPVNSGQAQRVLCPSNSSQRIPQAQKLVSHPK
 VQNQKQKQLQATSVPHVSRPLNNTQKSKQPLPSAPENNPEEELASKQKNEESKKRQWALEDFEIGRPLG
 KGKFGNYYLAREKQSKFILALKVLFKAQLEKAGVEHQLRREVEIQSHLRHPNLRLYGYFHDATRYVIL
 EYAPLGTVYRELQKLSKFDEQRTATYITELANALSYCHSKRVIHRDIKPENLLLSAGELKIADFGWSVH
 APSSRRTTLCGTLDYLPPEMIEGRMHDEKVDLWSLGVLCYEFLVGKPPFEANTYQETYKRISRVEFTFPD
 FVTEGARDLISRLLKHNPSQRPMLREVLEHPWITANSSKPSNCQNKESASKQS

SGPTRRRLEQKLI**SEEDLAANDILDYKDDDDKV**

Restriction Sites:

Sgfl-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 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]