

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | <i>hAURKA</i>    |
| Accession:     | AAH01280.1       |
| Insert size:   | 1226bp           |
| Concentration: | 10µg at 0.2µg/µL |

## **hAurora A cDNA Plasmid**

**AURKA** aurora kinase A [ *Homo sapiens* (human) ]

**Also known as:** AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; PPP1R47

### Summary:

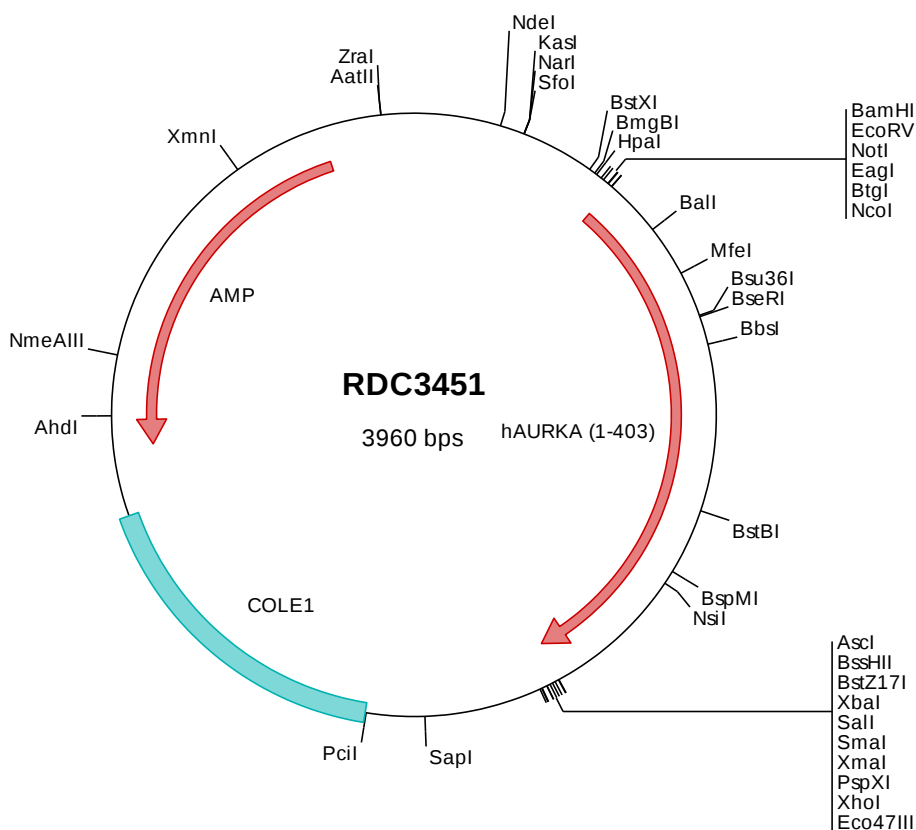
AURKA is a cell cycle-regulated kinase that appears to be involved in microtubule formation and stabilization at the spindle pole during chromosome segregation. It is found at the centrosome in interphase cells and at the spindle poles in mitosis. AURKA may play a role in tumor development and progression. A processed pseudogene of AURKA 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 AURKA.

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |



## > RDC3451 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggaatgtgtg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgtaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcaccc atggacgat ctaaaagaaa ctgcatttca ggacctgtta aggctacagc
501  tcacgttggga ggtccaaaac gtgtttctct gactcagcaa tttcctgttc agaattcatt acctgtaaat agtggccagg ctcagcgggt cttgtgtcct
601  tcaaatctct cccagcgcgt tcttttgcaa gcacaaaagc ttgtctccag tcacaagcgg gttcagaatc agaagcagaa gcaattgcag gcaaccagtg
701  tacctcattc tgtctccagg ccactgaata acacccaaaa gagcaagcag cccctgccat cggcacctga aaataatcct gaggaggaac tggcatcaaa
801  acagaaaaat gaagaactca aaaagaggca gtgggctttg gaagactttg aaattgtgtg cctctgtggg aaaggaaaat ttgttaatgt ttatttgga
901  agagaaaaagc aaagcaagtt tattctggct cttaaagtgt tatttaaagc tcagctggag aaagccggag tggagcatca gctcagaaga gaagttagaa
1001  tacactcacc tctctccagg ccactgaata acacccaaaa ttggtatttc ccatgtgcta ccagagtcta cctaattctg gaatatgcac cacttggaac
1101  agtttataga gaacttcaga aactttcaaa gttttagtag cagagaactg ctacttatat aacagaattg gcaaatgccc tgtcttactg tcaatcgaag
1201  agagttattc atagagacat taagccagag aaacttactc ttggatcagc tggagagctt aaaattgcag attttgggtg gtcagtacat gctccattct
1301  cagcaggagc caactctctg tgacactctg ccttgaactg ccttgaactg attgaaagtg ggatgcattg tgagaagtg gatcttggga gcttggagtg
1401  tctttgctat gaatttttag ttgggaagcc tctttttgag gcaaacacat accaagagac ctacaaaaga atatcacggg ttgaattcac attcctgac
1501  ttgttaacag agggagccag ggaactcatt tcaagactgt tgaagcataa tcccagccag aggccaatgc tcagagaagt acttgaacac ccttggatca
1601  cagcaaatcc atcaaaaacca tcaaatgtgc aaaaactgac atcagctagc aaaaagcgcg taaagcgctc ccagtatact ctagagtoga cccccggga
1701  attctctcag cgctcgtctc tagcttggcg taatcatggt catagctgtt tctgtgtga aattgttato cgctcacaat tccacacaac atacgagccg
1801  gaagcataaa gtgtaaagcc tggggtgcct aatgagttag ggggagagcg ctaactcaca ttaattgcgt tgcgctcact gcccgctttc cagtccggaa acctgtcgtg
1901  ccagctgcca ccttgaatcg gccaaagcgc ggggagagcg ggtttgcgta ttggcgctc ttccgcttcc tgcctcactg actcgtcgtg ctcggtcgtt
2001  cggctcgccg gagcgttatc agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaaaga catgtgagca aaaggccagc
2101  aaaagggcag gaaccgtaaa aaggccgcgt tgctggcgtt tttccatagg ctccgcccc ctgacgagca tcacaaaaat cgacgtcaa gtcagagtg
2201  gcgaaaaccc agcagactat aaagatacca ggcgtttccc cctggaaagt cctcgtgctg cctctcctgt ccgttacggg cgtctacggg atacctgtcc
2301  gcctttctcc cttcgggaag cgtggcgctt tctcaatgct cacgctgtag gtatctcagt tccgtgtag tegtctcgtc caagctgggc tgtgtgcacg
2401  aacccccgt tcagcccgac cgtgcgcct tatccggtaa tctcgtctt gagtccaacc cggtaagaca cgacttatcg ccactggcag cagccactgg
2501  taacaggatt agcagagcga ggtatgtagg cgggtctaca gagtctctga agtgggtgcc taactacggc tacactagaa ggacagtatt tggatctcgc
2601  gctctgctga agccagttac cttcgaaaaa agagtgtgta gctcttgatc cggcaaaaca accaccgctg gtacgggtgg ttttttgggt tgcaagcagc
2701  agattacgag cagaaaaaaa ggaatcctaa aagatccttt gatcttttct aactaaaaat gaagttttaa atcaatctaa agtatatatg gtcgtacagt
2801  catgagatta tcaaaaaagga tcttcaccta gatcctttta aattaaaaat ttcatccata gttgcctgac tcccgcgtcg gtatagaaat acgatccggg
2901  taccaatgct taatcagtag ggcacattat tcagcgatct gctctatttc ttcacccaga cagatttato agcaataaac cagccagccg gaaggccga
3001  agggcttacc atctggcccc agtgcctgca tgatacccgag agaccacgc tcaccggctc cagatttato agcaataaac cagccagccg gaaggccga
3101  gcgcagaagt ggtcctgcaa ctttatccgc ctccatccag tctattaatt gttgccggga agctagagta agtagttcgc cagttaatag tttgcgcaac
3201  gttgttgcca ttgctacagg catcgtggtg tcacgctcgt cggttggtat ggtctcattc agaagtaagt tggccgcagt gttatcactc atgtttatgg cagcactgca
3301  ccatgtttgtg caaaaaagcg gttagctcct tcggtcctcc gatcgtgttc gtgactggtg agtactcaac caagtcattc tgagaatagt gtagcggcgc accgagttgc
3401  taattctctt actgtcatgc catccgtaag atgcttttct gtagactggt gcagaacttt aaaagtgtc atcattggaa aacgttcttc ggggcgaaaa ctctcaagga
3501  tcttgcccggt cgtcaatagc ggataatacc agctgagatc aaacctctg tgaccttccag catcttttac tttaccagc gttcttgggt gagcaaaaac
3601  tcttacgcgt gttgagatcc agttcagatg aacctctgc cgaacccaac tgcatttccag catcttttac tttaccagc gttcttgggt gagcaaaaac
3701  aggaaggcaa aatgccgcaa aaaagggaat aaggcgaca cggaatgtt gaatactcat actcttctt tttcaatatt attgaagcat ttatcagggt
3801  tattgtctca tgagcggata catatttgaa tgtattttag aaaaataaca aataggggtt ccgcgcacat tttcccgaag agtgccacct gacgtctaag
3901  aaaccattat tatcatgaca ttaacctata aaaataggcg taccagagg ccctttcgtc

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## > RDC3451 Translated Insert Sequence

```

1   mdrskencis gpvkatapvg gpkrvlvtqg fpcqnplpvn sggaqrvlcp snssqrvplq aqklvsshkp vqnqkqkqlq atsvphpvsv plnntqkskq
101  plpsapennp eeelaskqkn eeskkrrqwal edfeigrplg kgkfgnvyla rekqskfila lkvlfkaql kagvehqlrr eveiqshlrl pnilirlygyf
201  hdatrvylil eyapltgvyr elqklskfde qrtatytitel analyschsk rvihrdikpe nlllgsagel kiadfgwsvh apssrrttlc gtdlylppem
301  iegrmhdekv dlwslgvlyc eflvgkppfe antyqetykr isrveftfpd fvt REGARDLI srllkhnp sq rpmlrevleh pwitansskp scnqnkesas
401  kqslkargyt lestpgfele rslslawnhg hscflceivi rsqfhttyep ea

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