

Product datasheet for SC117877

Aurora A (AURKA) (NM_003600) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora A (AURKA) (NM_003600) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aurora A
Synonyms:	AIK; ARK1; AURA; BTAK; PPP1R47; STK6; STK7; STK15
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_003600 edited
 ATGGACCGATCTAAAGAAAACACTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGA
 GGTCCAAAACGTGTTCTCGTGACTCAGCAATTTCTTGTCAGAATCCATTACCTGTAAT
 AGTGGCCAGGCTCAGCGGTCTTGTGTCCTTCAAATTCTTCCCAGCGCGTTCTTTGCAA
 GCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTTCAAGATCAGAAGCAGAAGCAATTGCAG
 GCAACCACTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAG
 CCCCTGCCATCGGCACCTGAAAAAATCCTGAGGAGGAAGTGGCATCAAAACAGAAAAAT
 GAAGAATCAAAAAGAGGCAGTGGGCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGT
 AAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAGCAAAGCAAGTTTATTCTGGCT
 CTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGA
 GAAGTAGAAATACAGTCCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTTC
 CATGATGCTACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGAACAGTTTATAGA
 GAACCTTCAAAAATTTCAAAGTTTGATGAGCAGAGAAGTCTACTTATATAACAGAAATTG
 GCAAAATGCCCTGTCTTACTGTCAATTGCAAGAGAGTTATTCATAGAGACATTAAGCCAGAG
 AACTTACTTCTTGGATCAGCTGGAGAGCTTAAATTTGCAGATTTTGGGTGGTCAGTACAT
 GCTCCATCTTCCAGGAGGACCACTCTGTGGCACCTGGACTACCTGCCCCCTGAAATG
 ATTGAAGTCCGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTAT
 GAATTTTTAGTTGGGAAGCCTCTTTTGGAGCAAACACATACCAAGAGACCTACAAAAGA
 ATATCACGGGTTGAATTCACATTCCTGACTTTTGTAAACAGAGGGAGCCAGGGACCTCATT
 TCAAGACTGTTGAAGCATAATCCAGCCAGAGGCCAATGCTCAGAGAAGTACTTGAACAC
 CCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGC
 AACAGTCTTAG



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003600 unedited
 AACTCGNGATTTGTAACACGNACTTTCTATAGGCGGCAAAACCATTTCGCACCAGGTTCGCA
 GGTGGGAGCCGACGGGCATCATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTA
 AGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGACTCAGCAATTTCCCTTGTC
 AGAATCCATTACCTGTAATAGTGGCCAGGCTCACTGTTTTTGTGTCCTTCAAATTTCTC
 CCAGCGGTTCCCTTGAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTCAGAATCA
 GAAGCAGAAGCAATTGCAGGCAACCAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAA
 CACCCTAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAATAATCCTGAGGAGGAACT
 GGCATCAAAACAGAAAAATGAAGAATCAAAAAAGAGGCAGTGGGCTTTGGAGACTTTGA
 AATTGGTCGCCCTCTGGGTAAAGGAAAGTTGGTAATGTTTATTTGGCAAGAGAAAAGCA
 AAGCAAGTTTATTCTGGCTCTTAAAGTGTATTTAAAGCTCAGCTGGAGAAAAGCCGGAGT
 GGAGCATCAGCTCAGAAGAGAAGTAGAAATACAGTCCCACCTTCGGCATCCTAATATTCT
 TAGACTGTATGGTTATTTCCATGATGCTACCAGAGTCTACCTAATTCTGGAATATGCACC
 ACTTGGAACAGTTTATAGAGAACTTCAGAACTTTTCAAGTTTGATGAGCAGAGAACTGC
 TACTTATATAACAAGATTGGGCAATGCCTGTCTTACTGTCATTGAAAAGAGTTATTCT
 TAGAGACATAAGCCAGGAGACTTACCTTCNGAATCAGCTGGAGAGCTTAAATGCAGATT
 TTGGGGGNCAGACCTGCTCCATCTTCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003600 unedited
 TTTTTTTTTTTTTTTTNGACTAGNACTTATTTATTTGCATATTTAAAGTTTACACACA
 TGCTATGACTCCAATGTTTTAAAAAAAAGCCCTTAACAGCTCTGAGACACATGGCCTCT
 TCTGTATCCCAAGCAAATCCCTAAATGGAGGTAGAGCACGTGTTCTATTTTTCACACTC
 TCATATGGGAGATAAGTGGTTAAGGAGGACTAGAAACCAATCAGGCCTACCGGGGTGCC
 GGACAGACACACAGCATTCTAAAGGAATGCCACCAGAGAAAAATACAAGTCTGTACAT
 ATATCTTTATTTTCATACTTAAAAAGAATCACATACTATTCCAACAGCTTTACCAGGCT
 TCGCCAACCAATAAGTTACACACTCACTCAGGTAAGGAAAGTTATTGCACAGCTCCT
 TAACTGATCGGGGTGAGGACAGAGTGGTCACTTTCCACAGCCAGGCTCTGGATTTGCC
 TCCTGTGAAGACCATGCTTAGCACAGGCTGACGGGGCGGCTGCAGTCGAACCTTGCT
 CCAGATTATGAACCAGTAAAGTAGCACAATTCTCGTGGCTACTTCACTTCAGAGTGTG
 ATGTTTATTGATGTGGAGCTTTCTGAATAGGGAGGTTAAGGCACACCTGCTGAGTAAAAC
 AATATTTCTTGT

Restriction Sites:

NotI-NotI

ACCN:

NM_003600

Insert Size:

1950 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_003600.2](#), [NP_003591.2](#)

RefSeq Size: 2346 bp

RefSeq ORF: 1212 bp

Locus ID: 6790

UniProt ID: [O14965](#)

Cytogenetics: 20q13.2

Domains: pkinase, TyrKc, S_TKc

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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1-9 encode the same protein.