

Product datasheet for **SC107819**

Aurora A (AURKA) (NM_198433) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora A (AURKA) (NM_198433) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107819 sequence for NM_198433 edited (data generated by NextGen Sequencing)

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ATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGA
GGTCCAAAACGTGTTCTCGTGACTCAGCAATTTCTTGTGAGAATCCATTACCTGTTAAAT
AGTGGCCAGGCTCAGCGGGTCTTGTGTCCTTCAAATTTCTCCAGCGCGTTCTTTTGCAA
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GCAACCAAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAG
CCCCTGCCATCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAAAAACAGAAAAAT
GAAGAATCAAAAAGAGGCGAGTGGGCTTTGGAAGACTTTGAAATTTGGTCGCCCTCTGGGT
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CTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGA
GAAGTAGAAATACAGTCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTTC
CATGATGTACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGAACAGTTTATAGA
GAACTTCAGAACTTTCAAAGTTTGATGAGCAGAGAAGTCTACTTATATAACAGAAATTG
GCAAAATGCCCTGTCTTACTGTCAATTGCAAGAGAGTTATTCATAGAGACATTAAGCCAGAG
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GCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCCTGGACTACCTGCCCCCTGAAATG
ATTGAAGTCCGATGCATGATGAGAAGTGGATCTCTGGAGCCTTGGAGTTCTTTTGCTAT
GAATTTTTAGTTGGGAAGCCTCTTTTGGAGCAAACACATACCAAGAGACCTACAAAAGA
ATATCACGGGTTGAATTCACATTCCTGACTTTGTAAACAGAGGGAGCCAGGGACCTCATT
TCAAGACTGTTGAAGCATAATCCAGCCAGAGGCAATGCTCAGAGAAAGTACTTGAACAC
CCCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGC
AAACAGTCTTAG

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Clone variation with respect to NM_198433.1
169 a=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_198433 unedited TTTGAACCGACTTCGTTAGGGCGGCCGAGCAATTCGCACGAGGGGAAAACTTGGGTCC TTGGGTGCGAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC GAGGACGGCGGGGACAAGGGGCGGCTGGTCGGAGTGGCGGAGCGTCAAGTCCCCTGTCGG TTCCTCCGTCCCTGAGTGCCTTGGCGCTGTCTTGTGCCCGCCAGCGCCTTTCATCCG CTCCTGGGCACCGAGGCGCCCTGTAGGATACTGCTTGTACTTATTACAGCTAGAGGCAT CATGGACCGATCTAAAGAAAACGATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGG AGGTCCAAAACGTTCTCGTGACTCAGCAATTCCTTGTGAGAATCCATTACCTGTAAA TAGTGCCAGGCTCAGCGGGTCTTGTGTCTTCAAATCTTCCAGCGCTTCCTTTGCA AGCAGAAAAGCTTGTCTCCAGTCACAAGCCGGTTCAGAATCAGAAGCAGAAGCAATTGCA GGCAACCAAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCA GCCCTGCCATCGGCACCTGAAAATATCCTGAGGAGGAACTGGCATCAAAACAGAAAAAT GAAGAATCAAAAAGAGGCAAGTGGGCTTTGGGAGACTTTGAAATTGCTCGCCCTCTGGGT AAAGGAAAGTGGGTAATGGTTATTTTGGCAAGAGGAAAGCAAGCAAGTTTATTCTGG CTCTTTAAGGGTTATTTAAAGCTCAGCTGGAGAAGCCCGGGNGGAGCCTCCGCCTCAA AGAGAAGTAAAAATACGGCCCCCTTCGGATCCTAATTTTTAGACAGGAGGAGGTTT TTCCACGAGGCCACCAGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_198433
Insert Size:	2400 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:	<ol style="list-style-type: none"> 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_198433.1 , NP_940835.1
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]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1-9 encode the same protein.