

## Product datasheet for **SC124640**

### Aurora A (AURKA) (NM\_198434) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora A (AURKA) (NM_198434) 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:	>NCBI ORF sequence for NM_198434, the custom clone sequence may differ by one or more nucleotides

```
ATGGACCGATCTAAAGAAAAGTGCATTTTCAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAAC
GTGTTCTCGTGACTCAGCAATTTCTTGTGAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGT
CTTGTGTCCTTCAAATTTCCAGCGCATTCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCG
GTTTCAGAATCAGAAGCAGAAGCAATTGCAGGCAACCAGTGTACCTCATCCTGTCTCCAGGCCACTGAATA
ACACCCAAAAGAGCAAGCAGCCCTGCCATCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAA
ACAGAAAAATGAAGAATCAAAAAGAGGCAGTGGGCTTTGGAAGACTTTGAAATTTGGTCCGCTCTGGGT
AAAGAAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAGCAAAGCAAGTTTATTCTGGCTCTTAAAGTGT
TATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTCAGAAGAGAAAGTAAATACAGTCCCA
CCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCTACCAGAGTCTACCTAATTCTG
GAATATGCACCACTTGGAAACAGTTTATAGAGAAGTTCAGAAAAGTTCAAAGTTTGGTGGAGAGAACTG
CTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTCAATTCGAAGAGAGTTATTCATAGAGACAT
TAAGCCAGAGAAGTACTTCTTGGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCAATACAT
GCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCTGGACTACCTGCCCCCTGAAATGATTGAAGGTC
GGATGCATGATGAGAAGTGGATCTCTGGAGCCTTGGAGTCTTTGCTATGAATTTTGGTGGGAAAGCC
TCCTTTTGGAGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTTGAATTCACATTCCTGAC
TTTGTAACAGAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCCAGCCAGAGGCCAATGC
TCAGAGAAGTACTTGAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAATTTGCCAAAACAAAGA
ATCAGCTAGCAAACAGTCTTAG
```



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_198434 unedited TTGTCAATACGCACTNCACTTATAGGNCGGCCCGCAATTCGGCACGCAGGGAAGACT TGGGTCCTTGGGTCGCAGGGTCTCACTCCATTGCCAGGCCAGAGTGCGGGGATATTTGA TAAGAACTTTAGTGAAGGCCGGGCGGGTGGCTCATGCCGTAATCCCAGCATTTTCGG AGGCCGAGGCATCATGGACCGATCTAAAGAAAAGTGCATTTCCAGACCTGCTAAGGCTAC AGCTCCAGCTGGAGGCCAAAACGTGTTCTCGTGACTACCAATTTCTTGTGAGAAATCC ATTACCTGTAAATAGTGGCCAGGCTCAGCGGGCCTTGTGTCCTTCAAATTTCCAGCG CATTCTTTGCAAGCACAAAAGCTTGCCCTCCAGTTACAAGTCGGCTCACAATCACAAGCA CAAGCAATCGCAGGCCACCACTGTACCTCATCCTGTCTCCAGGCCCACTGAATACCACCC AAAAGAGCAAGCAGCCCCCTGCCATCGGCACCTGAAAATAATTCTGAGGCAGGAAGTGGC ATCCAAACCAGAACAAATGATCAATCATACCCAGGCAGCGGGCTTTGGAAGACTTTGCAA TTGGCCCCCCTCTGCCAAAAGGAAAGTTTGGTAATGTTCTATCTGGCCCCGAAAACCG CACACGTACGTTTACCTCGCTCTTAACGCGCCATTTAACGCCCACTTGGAGAAAAGC TGGATTGCAGTATCCCCCTTACAAGAGCAATCCCAATCCCGCTCCCCCTCTCGGGAT CTCTACTAATTCCCAACACCGGTCCCGCTATCTCCATGGACGCTACCCAGAAGTTTAC CCTATTTTCTGGCAAATGCCCCACCTTGAAACCCTTTAATAAACGACCTACCAAAAAC ACTTTTAAAAGCTCCAGGAAATAACACACCCTGATACCTACCCAACCCCAATTGGCATA ATGCCCTTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_198434
<b>Insert Size:</b>	2300 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_198434.1</a> , <a href="#">NP_940836.1</a>
<b>RefSeq Size:</b>	2245 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	6790
<b>UniProt ID:</b>	<a href="#">O14965</a>
<b>Cytogenetics:</b>	20q13.2
<b>Protein Families:</b>	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 (3) differs in the 5' UTR compared to variant 1. Variants 1-9 encode the same protein.