

Product datasheet for **SC123698**

Aurora B (AURKB) (BC009751) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora B (AURKB) (BC009751) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aurora B
Synonyms:	AIK2; AIM-1; AIM1; ARK2; AurB; aurora-1; aurora-B; aurora kinase B; IPL1; serine/threonine kinase 12; STK5; STK12
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC009751 edited

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GTGCCTTGGACCCAGCTCTCCTCCCCCTTTCTCTCTAAGGATGGCCCAGAAGGAGAACT
CCTACCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCTGCCCCAGC
GAGTCCCTCCGAAAGAGCCTGTCACCCCATCTGCACTTGTCTCATGAGCCGCTCCAATG
TCCAGCCCACAGCTGCCCTGGCCAGAAGGTGATGGAGAATAGCAGTGGGACACCCGACA
TCTTAACGCGGCACTTCACAATTGATGACTTTGAGATTGGCGTCTCTGGGCAAAGGCA
AGTTTGAAACGTGTAAGTGGCTCGGGAGAAGAAAGCCATTTTCATCGTGGCGCTCAAGG
TCCTCTTCAAGTCCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCG
AAATCCAGGCCACCTGCACCATCCCAACATCCTGCGTCTCTACAACATTTTTATGACC
GGAGGAGGATCTACTTGATTCTAGAGTATGCCCCCGCGGGGAGCTCTACAAGGAGCTGC
AGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATGGAGGAGTTGGCAGATG
CTCTAATGTACTGCCATGGGAAGAAGGTGATTCACAGAGACATAAAGCCAGAAAACTGC
TCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCCCCCT
CCCTGAGGAGGAAGACAATGTGTGGCACCTGGACTACCTGCCCCAGAGATGATTGAGG
GGCGCATGCACAATGAGAAGGTGGATCTGTGGTGCATTGGAGTGCTTTGCTATGAGCTGC
TGGTGGGGAACCCACCCTTTGAGAGTGCATCACACAACGAGACCTATCGCCGCATCGTCA
AGGTGGACCTAAAGTTCCCCGCTTCCGTGCCATGGGAGCCCAGGACCTCATCTCCAAAC
TGCTCAGGCATAACCCCTCGGAACGGCTGCCCTGGCCAGGTCTCAGCCACCCCTGGG
TCCGGGCCAACTCTCGGAGGGTGTGCTCCCTCTGCCCTTCAATCTGTGCCTGATGGT
CCCTGTCACTTCACTCGGGTGCCTGTGTTGTATGTCTGTGTATGTATAGGGGAAAGAAGG
GATCCCTAACTGTTCCCTTATCTGTTTTCTACCTCCTCTTGTAAATAAAGGCTGAAG
CTTTTTGTACTCATGAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for BC009751 unedited</p> <pre> NCGTTTCAGAAATTGTAACGACTTCACTATAGGCGGCCGCGAATTCGCACGAGGAGGGTCCG GCCGGGNAAGTAGCAGTGCCTTGGACCCAGCTCTCCTCCCCCTTTCTCTCTAAGATGG CCCAGAAGGAGAACTCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGA GCACCTGCCCCAGCGAGTCTCCGAAAGAGCCTGTACCCCATCTGCACTTGTCTCA TGAGCCGCTCCAATGTCCAGCCACAGCTGCCCTGGCCAGAAGGTGATGGAGAATAGCA GTGGGACACCCGACATCTTAACGCGGCACTTACAATTGATGACTTTGAGATTGGGCGTC CTCTGGGCAAAGCAAGTTTGGAAACGTGTACTTGGCTCGGGAGAAGAAAAGCCATTTCA TCGTGGCGCTCAAGTCTCTTCAAGTCCAGATAGAGAAGGAGGGCGTGAGCATCAGC TGCGCAGAGAGATCGAAATCCAGGCCACCTGCACCATCCAACATCCTGCGTCTCTACA ACTATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTATGCCCCCGGGGAGC TCTACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCAACAGCCACGATCATGG AGGAGTTGGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTCACAGAGACATAA AGCCAGAAAATCTGCTCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGG TCTGTGCATGCGCCCTCCCTNGAGAGGAAGACAATGTGTGGCACCTGGACTACCTGCC CCAGAATGATTGGAGGGCGCATGACAATGAGAAGTGGATCTGTTGTGCATTGGAGTGCT TTGCTATGAGCTGCTGGTGGGGAAACCCACCTTTTGA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for BC009751 unedited</p> <pre> NTTGCGCCATTGGCTGATGGCAACTTGCCAGGTCCAGGAAGAGCCTGGGGAAGGGGCTCA CAGGGCATGCCACCCGGGTATCTGTTGAGGAAAACAGCTATGACCGCGGCCGAATCTAG AGTCGAGTTTTTTTTTTTTTTTTTACAAAAAGCTTCAGCCTTTATTAACAAAGGAGGA GGTAGAAAACAGATAAGGGAACAGTTAGGGATCCCTTCTTTCCCTATACATACACAGAC ATACAAACACACGCACCCGAGTGAATGACAGGGACCATCAGGCGACAGATTGAAGGGCAG AGGGAGGCAGCACCCCTCCGAGAGTTGGCCCGACCCAAGGGTGGGCTGAGACCTGAGCCA GGGGCAGCCGTTCCGAGGGGTTATGCCTGATCAGTTATGAGATGATGCTCTGCGTCCCG TGGGCACAGAAGCGGGAACTTTAGGTCACCTTGACGATGCGGGGATAGGTCTCGTTGT GTGATGCACTCTCAAAGGGTGGGTTCCCCACCAGCAGCTCATAGCANAGCACTCCAATG CACCACAGATCCACCTTCTCATTGTGCATGCGCCCTCAATCATCTCTGGGGGCGATGTA GTCCAGGGTGCCACACATTGTCTTCTCCTCAGGGAAGGCGCATGCACAGACCAGCGAAG TCAGCANTCTTCACTCTCCTTTGACCCTAAGACAAAATTTCTAGCCTTATGTCTCTGTA AATCACCTCTTCCATGGCAGTACATAANAGCATCTGCCACCTCCTCCATGATCCGGCCT TGTCCCTGCTAGTAAATGTGCAGCTCTTCTGCAGCTCTTGAAACTCCCCGGGGGCGAT ACTCTAAATCAAGTACATCTCCTCCGTCATAAAATANTTTAAAACCCAGATGTTGGATGG TCCAGTGGCCCCGGGATTCATTCTTTTTGCCCACTGAAGT </pre>
Restriction Sites:	Please inquire
ACCN:	BC009751
Insert Size:	1242 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: [BC009751.2](#), [AAH09751.1](#)

RefSeq Size: 1233 bp

Locus ID: 9212

Cytogenetics: 17p13.1

Protein Families: Druggable Genome, Protein Kinase, Stem cell - Pluripotency

Gene Summary: This gene encodes a member of the aurora kinase subfamily of serine/threonine kinases. The genes encoding the other two members of this subfamily are located on chromosomes 19 and 20. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. A pseudogene of this gene is located on chromosome 8. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2015]