

## Product datasheet for **SC332487**

### Aurora B (AURKB) (NM\_001256834) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora B (AURKB) (NM_001256834) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aurora B
Synonyms:	AIK2; AIM-1; AIM1; ARK-2; ARK2; AurB; aurkb-sv1; aurkb-sv2; IPL1; PPP1R48; STK-1; STK5; STK12
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332487 representing NM_001256834. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAGCCGCTCCAATGTCCAGCCACAGCTGCCCTGGCCAGAAGGTGATGGAGAATAGCAGTGGGACA
CCCACATCTTAACGCGCACTTACAATTGATGACTTTGAGATTGGCGTCCTCTGGGCAAGGCAAG
TTTGAAACGTGTACTTGGCTCGGGAGAAGAAAAGCCATTTTCATCGTGGCGCTCAAGTCTCTTCAAG
TCCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCACCTGCAC
CATCCCAACATCCTGCGTCTCTACAACATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTAT
GCCCCCGCGGGAGCTCTACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCAGC
ATCATGGAGGAGTTGGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTCACAGAGACATAAAG
CCAGAAAATCTGCTCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCG
CCCTCCCTGAGGAGGAAGACAATGTGTGGCACCTGGACTACCTGCCCCAGAGATGATTGAGGGGCGC
ATGCACAATGAGAAGGTGGATCTGTGGTGCATTGGAGTGCTTTGCTATGAGCTGTGGTGGGAACCCA
CCCTTTGAGAGTGCATCACACAACGAGACCTATCGCCGCATCGTCAAGGTGGACCTAAAGTTCGCCGCT
TCCGTGCCATGGGAGCCAGGACCTCATCTCCAACTGCTCAGGCATAACCCCTCGGAACGGCTGCC
CTGGCCAGGTCTCAGCCACCCTTGGGTCCGGGCCAACTCTCGGAGGGTGTGCCTCCCTCTGCCCTT
CAATCTGTCGCCTGA

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001256834
Insert Size:	912 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).



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**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\\_001256834.1](#)

**RefSeq Size:** 1224 bp

**RefSeq ORF:** 912 bp

**Locus ID:** 9212

**UniProt ID:** [Q96GD4](#)

**Cytogenetics:** 17p13.1

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

**MW:** 34.8 kDa

**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]  
Transcript Variant: This variant (2) lacks an exon in the 5' coding region, which results in translation initiation from an in-frame downstream start codon compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Variants 2 and 5 encode the same isoform.