

## Product datasheet for RC210288

### Aurora B (AURKB) (NM\_004217) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora B (AURKB) (NM_004217) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aurora B
Synonyms:	AIK2; AIM-1; AIM1; ARK-2; ARK2; AurB; aurkb-sv1; aurkb-sv2; IPL1; PPP1R48; STK-1; STK5; STK12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210288 representing NM_004217 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCCAGAAGGAGAACTCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCC  
TGCCCCAGCGAGTCTCCGAAAGAGCCTGTCACCCCATCTGCACTTGTCTCATGAGCCGCTCCAATGT  
CCAGCCCACAGCTGCCCTGGCCAGAAGGTGATGGAGAAATAGCAGTGGGACACCCGACATCTTAACGCGG  
CACTTCACAATTGATGACTTTGAGATTGGGCGTCTCTGGGCAAAGGCAAGTTTGGAAACGTGACTTGG  
CTCGGGAGAAGAAAAGCCATTTTCATCGTGGCGCTCAAGGTCTCTCAAGTCCCAGATAGAGAAGGAGGG  
CGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCACCTGCACCATCCCAACATCTGCGTCTC  
TACAACTATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTATGCCCCCCGGGGAGCTCTACA  
AGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATGGAGGAGTTGGCAGATGC  
TCTAATGTACTGCCATGGGAAGAAGGTGATTCACAGAGACATAAAGCCAGAAAATCTGCTCTTAGGGCTC  
AAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCTGAGGAGGAAGACAATGT  
GTGGCACCCCTGGACTACCTGCCCCAGAGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCTGTG  
GTGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGAACCCACCTTTGAGAGTGCATCACACAACGAG  
ACCTATCGCCGCATCGTCAAGGTGGACCTAAAGTTCGCCGCTTCTGTGCCACGGGAGCCAGGACCTCA  
TCTCCAACTGCTCAGGCATAACCCCTCGAAGCGGCTGCCCTGGCCAGGTCTCAGCCACCCCTTGGGT  
CCGGGCCAACTCTCGGAGGGTGTGCTCCCTCTGCCCTCAATCTGTGCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_004217.1](#), [NP\\_004208.1](#)

**RefSeq Size:** 1253 bp

**RefSeq ORF:** 1035 bp

**Locus ID:** 9212

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

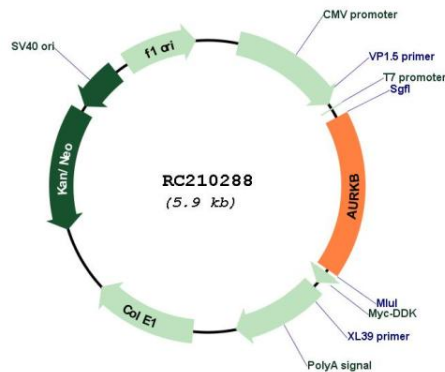
**Cytogenetics:** 17p13.1

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

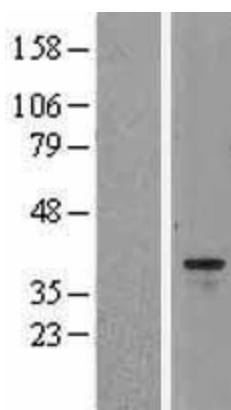
**MW:** 39.1 kDa

**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]

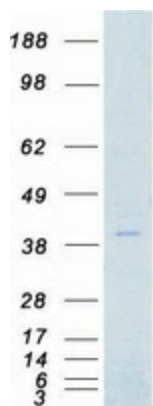
## Product images:



Circular map for RC210288



Western blot validation of overexpression lysate (Cat# [LY418144]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AURKB protein (Cat# [TP310288]). The protein was produced from HEK293T cells transfected with AURKB cDNA clone (Cat# RC210288) using MegaTran 2.0 (Cat# [TT210002]).