

Product datasheet for RC237612

Aurora B (AURKB) (NM_001284526) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora B (AURKB) (NM_001284526) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AURKB
Synonyms:	AIK2; AIM-1; AIM1; ARK-2; ARK2; AurB; aurkb-sv1; aurkb-sv2; IPL1; PPP1R48; STK-1; STK5; STK12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237612 representing NM_001284526 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAAAGGAGAATCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCC
TGCCCCAGCGAGTCTCCGAAAGAGCCTGTACCCCATCTGCCTTGTCTCATGAGCCGCTCCAATGT
CCAGCCACAGCTGCCCTGGCCAGAAGGTGATGGAGAATAGCAGTGGGACACCCGACATCTTAACCAGG
CGGCATTCACAATTGATGACTTTGAGATTGGGCGTCTCTGGGCAAAGCAAGTTGGAAACGTGACT
TGGCTCGGAGAAGAAAAGCCATTTTCATCGTGGCGCTCAAGGTCCTCTTCAAGTCCAGATAGAGAAGGA
GGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCACCTGCACCATCCAACATCCTGCGT
CTCTACAATAATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTATGCCCCCGCGGGAGCTCT
ACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATGGAGGAGTTGGCAGA
TGCTCTAATGACTGCCATGGGAAGAAGGTGATTCACAGAGACATAAAGCCAGAAAATCTGCTCTTAGGG
CTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCTGAGGAGGAAGACAA
TGTGTGGCACCCTGGACTACCTGCCCCAGAGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCT
GTGGTGCATTGGAGTGTCTTGTATGAGCTGCTGGTGGGAACCCACCCCTTTGAGAGTGCATCACACAAC
GAGACCTATCGCCGATCGTCAAGGTGGACCTAAAGTTCGCCCTCCGTCGCCATGGGAGCCAGGACC
TCATCTCAAAGTGTCAAGGCATAACCCCTCGGAACGGCTGCCCTGGCCAGGTCTCAGCCACCCCTTG
GGTCCGGGCAACTCTCGGAGGGTGTGCTCCCTCTGCCCTTCAATCTGTCCG

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237612 representing NM_001284526
Red=Cloning site Green=Tags(s)

MAQKENSYPWPYGRQTAPSGLSTLPQVRLEKPEVTPSALVLMRSRNVQPTAAPGQKVMENSSGTPDILTR
 RHFTIDDFEIGRPLGKGFKNVYLAREKSHFIVALVKVFKSQIEKEGVEHQLRREIEIQAHLHHPNILR
 LNYFYDRRRRIYLILEYAPRGELYKELQKSCTFDEQRTATIMEELADALMYCHGKKVIHRDIKPENLLLG
 LKGEKLIADFGWSVHAPSLRRKTCMGTLDYLPPEMIEGRMHNEKVDLWCIGVLCYELLVGNPPFESASHN
 ETYRRIKVDLKFASVPMGAQDLISKLLRHNPSERLPLAQVSAHPWVRANSRRVLPSSALQSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

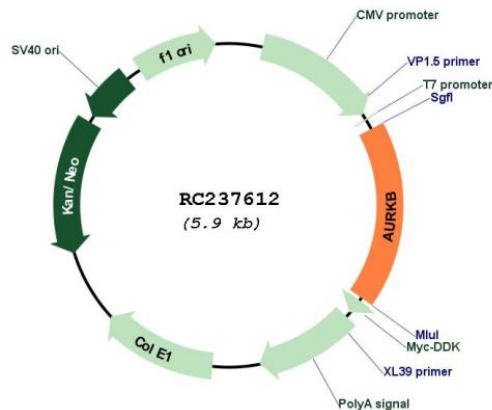
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001284526

ORF Size: 1035 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001284526.2
RefSeq Size:	1317 bp
RefSeq ORF:	1038 bp
Locus ID:	9212
UniProt ID:	Q96GD4
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
MW:	39.9 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]