

## Product datasheet for **MR205201**

### Aurkb (NM\_011496) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurkb (NM_011496) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aurkb
Synonyms:	Al; Aik2; AIM-1; Aim1; AIRK2; AL022959; Ark2; AurB; I; IPL1; Stk; STK-; STK-1; Stk1; Stk5; Stk12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR205201 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTCAGAAGGAGAACGCCTACCCGTGGCCCTACGGCTCAAAGACGTCTCAGTCTGGCCTGAACACGT  
TGTCACAGAGAGTCTACGGAAGGAGCCGCCACGACATCTGCGCTTGCTCTCGTGAACCGGTCCAACAG  
CCAGTCCACAGCTGCCCTGGCCAGAAGTTGGCTGAGAACAAGAGTCAGGGCTCCACTGCCTCGCAAGGA  
TCCCAGAACAAGCAGCCTTTCACATTGACAACCTTGGAGATTGGGCGTCTTTGGCAAAGGCAAATTTG  
GAAACGTGTACTTGGCTCGGGAGAAGAAGGCCGTTTCATCGTGGCACTCAAGATCCTCTCAAGTCTCA  
GATTGAGAAGGAGGGGTAGAGCACCAGCTTCGCCGAGAGATCGAAATCCAGGCGCACCTGAAACATCCC  
AACATCCTTCAACTCTACAACACTTCTACGACCAGCAGAGGATCTACTTAATCCTGGAATACGCCCTC  
GCGGGAACTCTACAAGGAAGTGCAGAAGAGTCGGACCTTCGATGAGCAGCGGACTGCCACGATCATGGA  
GGAAGTGTGAGATGCCCTGACCTACTGCCACAAGAAGAAGGTAATTCACAGAGACATAAAGCCGGAGAAC  
CTGCTGTTAGGTCTGCAGGGAGAAGTGAAGATTGCAGACTTTGGCTGGTGGTGCATGCCCATCCCTGA  
GGAGGAAGACCATGTGCGGCACGCTGGACTATCTGCCCCAGAGATGATTGAGGGGCGCATGCATAATGA  
AATGGTAGATCTATGGTGCATCGGGGTGCTCTGCTATGAACTGATGGTGGGAACCCACCCTTCGAGAGC  
CCTAGCCACAGTGAAGCTATCGTCGGATTGTCAAGGTGGACCTGAAGTCCCCTCTTCTGTGCCTTCGG  
GCGCCAGGACCTCATCTCAAGCTGCTCAAACATAACCCTGGCAACGGCTGCCCTGGCGGAGGTTGC  
AGCTCACCTTGGGTCCGGGCAACTCAAGGAGGTTCTGCCTCCCTCTGCCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205201 protein sequence  
 Red=Cloning site Green=Tags(s)

MAQKENAYPWPYGSKTSQSGLNTLSQRVLRKEPATTSSALALVNRSNSQSTAAPGQKLAENKSGQSTASQG  
 SQNKQPFITDNFEIGRPLGKGFNVYLAREKSRFIVALKILFKSQIEKEGVEHQLRREIEIQAHLKHP  
 NILQLYNYFYDQQRILILEYAPRGELYKELQKSRTFDEQRTATIMEELSDALTYCHKKKVIHRDIKPEN  
 LLLGLQGELKIADFGWSVHAPSLRRKTMCGTLDYLPPEMIEGRMHNMVDLWCIGVLCYELMVGNNPPFES  
 PSHSEYRRIVKVDLKFSSVPSGAQDLISKLLKHPWQRLPLAEVAAHPWVRANSRRVLPSSAL

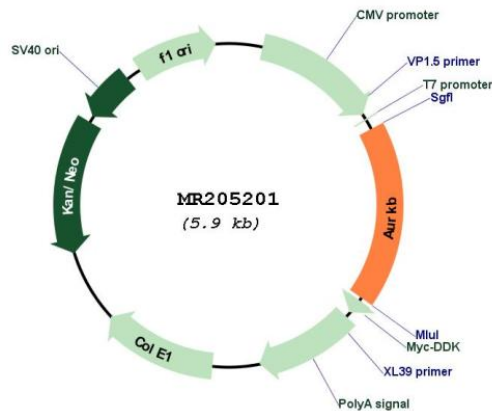
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_011496

**ORF Size:** 1038 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_011496.1</a> , <a href="#">NM_011496.2</a> , <a href="#">NP_035626.1</a>
<b>RefSeq Size:</b>	1957 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	20877
<b>UniProt ID:</b>	<a href="#">O70126</a>
<b>Cytogenetics:</b>	11 42.32 cM
<b>MW:</b>	39.3 kDa
<b>Gene Summary:</b>	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 2 and 7. These kinases participate in the regulation of alignment and segregation of chromosomes during mitosis and meiosis through association with microtubules. [provided by RefSeq, Sep 2015]