

## Product datasheet for **MG205201**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurkb (NM_011496) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aurkb
Synonyms:	Al; Aik2; AIM-1; Aim1; AIRK2; AL022959; Ark2; AurB; I; IPL1; Stk; STK-; STK-1; Stk1; Stk5; Stk12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205201 representing NM_011496 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAGAAGGAGAACGCCTACCCGTGGCCCTACGGCTCAAAGACGTCTCAGTCTGGCCTGAACACGT  
TGTCCCAGAGAGTCCTACGGAAGGAGCCCGCCACGACATCTGCGCTTGCTCTCGTGAACCGGTCCAACAG  
CCAGTCCACAGCTGCCCTGGCCAGAAGTTGGCTGAGAACAAGAGTCAGGGCTCCACTGCCTCGCAAGGA  
TCCCAGAACAAAGCAGCCTTTCACATATTGACAACTTTGAGATTGGCGTCCTTTGGGCAAAGGCAAATTTG  
GAAACGTGTACTTGGCTCGGGAGAAGAAGACCCGTTTCATCGTGGCACTCAAGATCCTCTCAAGTCTCA  
GATTGAGAAGGAGGGGTAGAGCACCAGCTTCGCCGAGAGATCGAAATCCAGGCGCACCTGAAACATCCC  
AACATCCTTCAACTCTACAACACTTCTACGACCAGCAGAGGATCTACTTAATCCTGGAATACGCCCCCTC  
GCGGGAACTCTACAAGGAACTGCAGAAGATCGGACCTTCGATGAGCAGCGGACTGCCACGATCATGGA  
GGAAGTGTGAGTGCCTGACCTACTGCCACAAGAAGAAGGTAATTCACAGAGACATAAAGCCGGAGAAC  
CTGCTGTTAGGTCTGCAGGGAGAAGTGAAGATTGCAGACTTTGGCTGGTGGTGCATGCCCATCCCTGA  
GGAGGAAGACCATGTGCGGCACGCTGGACTATCTGCCCCAGAGATGATTGAGGGCGCATGCATAATGA  
AATGGTAGATCTATGGTGCATCGGGTGTCTGCTATGAACTGATGGTGGGAACCCACCCTTCGAGAGC  
CCTAGCCACAGTGAGACGTATCGTCGGATTGTCAAGGTGGACCTGAAGTCCCCTCTTCTGTGCCCTCGG  
GCGCCAGGACCTCATCTCCAAGCTGCTCAAACATAACCCTGGCAACGGCTGCCCTGGCGGAGGTTGC  
AGCTCACCTTGGTCCGGGCAACTCAAGGAGGTTCTGCCTCCCTCTGCCCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205201 representing NM\_011496  
 Red=Cloning site Green=Tags(s)

MAQKENAYPWPYGSKTSQSGLNLSQRVLRKEPATTSSALALVNRSNSQSTAAPGQKLAENKSGQSTASQG  
 SQNKQPFIDNFEIGRPLGKGFVNVYLAREKSRFIVALKILFKSQIEKEGVEHQLRREIEIQAHLKHP  
 NILQLYNYFYDQQRILILEYAPRGELYKELQKSRTFDEQRTATIMEELSDALTYCHKKKVIHRDIKPEN  
 LLLGLQGELKIADFGWSVHAPSLRRKTMCGTLDYLPPEMIEGRMHNMVDLWCIGVLCYELMVGNNPPFES  
 PSHSETYRRIVKVDLKFSSVPSGAQDLISKLLKHPWQRLPLAEVAAHPWVRANSRRVLPSSAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011496

**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:**

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\\_011496.1](#), [NP\\_035626.1](#)

**RefSeq Size:** 1957 bp

**RefSeq ORF:** 1038 bp

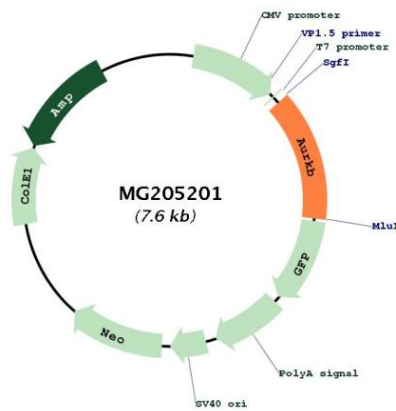
**Locus ID:** 20877

**UniProt ID:** [O70126](#)

**Cytogenetics:** 11 42.32 cM

**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 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]

### Product images:



Circular map for MG205201