

Product datasheet for **MG203721**

Aurkc (BC064780) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aurkc (BC064780) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aurkc
Synonyms:	AIK3, AIE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203721 representing BC064780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCAGCACCTCAACCAGGAAGCATTTCCACATCAATGACTTTGAAATCGGGCGTCTCTGGGCA
GGGGGAAATTTGGGCGTGTGACTTGGCTCGGCTCAAGGAAAATCATTTCATCGTGGCCCTGAAGGTCCT
CTTCAAGTCTGAGATAGAGAAGGAGGGATTGGAGACCAACTTCGCAGGGAAGTGGAGATCCAGGCACAC
CTACAACACCGGAACATCCTTCGCCTGTACAACACTTCTATGATGACACTCGGATATACTTAATTCTGG
AGTATGCTCCAGGAGGAGAGCTCTATAAGGAGCTTCAGAGACATCAGAAGTTGGACCAGCAGCGTACAGC
CAGGATAATACAGGAGTTGTGAGATGCCCTGACCTACTGCCATGAGAAGAAGGTGATTACAGGGGACATC
AAGCCAGAGAATCTCCTGCTGGGCTCAATGGTGAGGTGAAGATCTCAGACTTTGGGTGGTCTGTGCATA
CCCCCTCTCTCAGGAGAAAGACAATGTGTGGGACTCTGGACTACTTGCCCCGGAATGATAGCGCAGAA
ACCGTACAATGAGATGGTTGATCTGTGGTGCAATGGGGTGCTCTGCTATGAGCTGCTGGTGGGAAGCCA
CCCTTTGAGAGCAGCACCTCCAGTGAGACATACAGACGCATCCGCCAGGTGGATTTAAAGTTTCCTTCAT
CAGTACCTGCAGGAGCCAGGACTTGATCTCCAAGCTTCTTAGGTACCATCCTTCAGAGCGGCTGAGCCT
GGCCAGGTCTGAAGCACCCCTGGGTGAGGAACTCTCGAAGGGTGCTTCTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203721 representing BC064780
 Red=Cloning site Green=Tags(s)

MEPSTSTRKHFTINDFEIGRPLGRGKFGRVYLARLKENHFIVALKVLFKSEIEKEGLEHQLRREVEIQAH
 LQHRNLRLYNYFYDDTRIYLILEYAPGGELYKELQRHQKLDQQRATIIQELSDALTYCHEKKVIHRDI
 KPENLLGLNGEVKISDFGWSVHTPSLRRTMCGTLDYLPPEMIAQKPYNEMVDLWCIGVLCYELLVGKP
 PFESSTSSEYRRIRQVDFKFPSSVPAQAQDLISKLLRYHPSERLSLAQVLKHPWVREHSRRVLP

TRTRPLE - GFP Tag - V

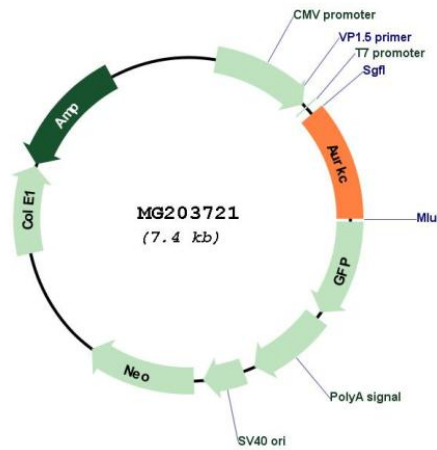
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC064780

ORF Size: 830 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:	BC064780 , AAH64780
RefSeq Size:	1358 bp
RefSeq ORF:	830 bp
Locus ID:	20871
Cytogenetics:	7 4.06 cM
Gene Summary:	Serine/threonine-protein kinase component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Plays also a role in meiosis and more particularly in spermatogenesis. Has redundant cellular functions with AURKB and can rescue an AURKB knockdown. Like AURKB, AURKC phosphorylates histone H3 at 'Ser-10' and 'Ser-28'. AURKC phosphorylates the CPC complex subunits BIRC5/survivin and INCENP leading to increased AURKC activity. Phosphorylates TACC1, another protein involved in cell division, at 'Ser-228'. [UniProtKB/Swiss-Prot Function]