

Product datasheet for **MC206733**

Aurkc (BC064780) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aurkc (BC064780) Mouse Untagged Clone
Tag: Tag Free
Symbol: Aurkc
Synonyms: AIK3, AIE1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC064780
GGCAGTGCTAGTGGATTACCAGTGTGTGTGCCGTGTGTCCCTGGGTGGGTGAGACATTCGGGGCGGTT
GGGGAGGCTGGAGTCAGAGCGTTACCCGCCTACCCTTTTCCAGGATCTAAGCAACTAGCAGGACTTCAAC
TTGCCCTCACCTCTTTAGAGTTCAGGGAAGAGTCACCTCCTTCGGGCTGGGCTTCACACACAAGTAAGAG
GTAGGAAAACCCGGACCGACTCCAAAGTGGTGGCAGTATGAGAAAGATCCCTGCAGCAGGAGGATGAG
GCAGCAGGATGGGGACAGTTAGAGGTCACTGGGATCCGCAGCCAGGGGTTGCTACTGGCCAGATGGAGC
CCAGCACCTCAACCAGGAAGCATTTACCATCAATGACTTTGAAATCGGGCGTCTCTGGGCAGGGGGAA
ATTTGGGCGTGTACTTGGCTCGGCTCAAGGAAAATCATTTTCATCGTGGCCCTGAAGTCTCTTCAAG
TCTGAGATAGAGAAGGAGGGATTGGAGCACCAACTTCGCAGGGAAGTGGAGATCCAGGCACACCTACAAC
ACCGAACATCCTTCGCCTGTACAACACTTCTATGATGACACTCGGATATACTTAATTCTGGAGTATGC
TCCAGGAGGAGAGCTCTATAAGGAGCTTCAGAGACATCAGAAGTTGGACCAGCAGCGTACAGCCACGATA
ATACAGGAGTTGTCAGATGCCCTGACCTACTGCCATGAGAAGAAGGTGATTCACAGGGACATCAAGCCAG
AGAATCTCCTGCTGGGCCTCAATGGTGAAGTGAAGATCTCAGACTTTGGTGGTCTGTGCATACCCCTC
TCTCAGGAGAAAGACAATGTGTGGGACTCTGGACTACTTGCCCCGGAAATGATAGCGCAGAAACCGTAC
AATGAGATGGTTGATCTGTGGTGCAATGGGGTCTGTCTATGAGCTGCTGGTGGGAAGCCACCTTTG
AGAGCAGCACCTCCAGTGAGACATACAGACGCATCCGCCAGGTGGATTTTAAGTTTCTTCATCAGTACC
TGCAGGAGCCAGGACTTGATCTCCAAGCTTCTTAGGTACCATCCTTCAGAGCGGCTGAGCCTGGCCAG
GTCCTGAAGCACCCCTGGGTCAGGGAACACTCTCGAAGGTGCTTCCTTGCTAGTTTCAGGGTCTGCTCTG
AGCCCTGTCCATCTATCCCTATGATTTCTTCAGGAAGGTCTCAGGCTCTGTTTGTAGTGCATGTG
GTTTCGCTTGTCTCTTTTATGAAGTGTGTTAATTAATAACTGATTATTTTAGCATCAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC064780
Insert Size: 831 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>BC064780</u> , <u>AAH64780</u>
RefSeq Size:	1358 bp
RefSeq ORF:	831 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]