

Product datasheet for **MG216975**

Aurkc (NM_001080966) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Aurkc
Synonyms:	AIE1; AIK3; ARK-3; IAK3; Stk13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG216975 representing NM_001080966
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

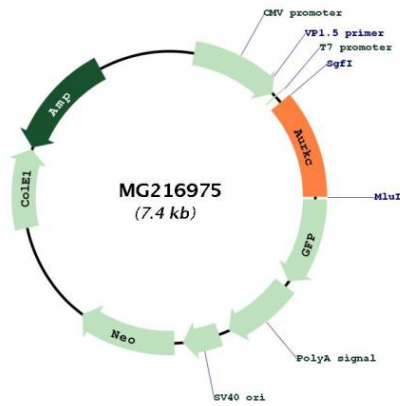
ATGGAGCCCAGCACCTCAACCAGGAAGCATTTCACCATCAATGACTTTGAAATCGGGCGTCTCTGGGCA
GGGGGAAATTTGGGCGTGTGTACTTGGCTCGGCTCAAGGAAAATCATTTTCATCGTGGCCCTGAAGGTCCT
CTTCAAGTCTGAGATAGAGAAGGAGGGATTGGAGCACCACCTTCGAGGGAAGTGGAGATCCAGGCACAC
CTACAACCCGGAACATCCTTCGCCTGTACAACACTTCTATGATGACACTCGGATACTTAATTCTGG
AGTATGCTCCAGGAGGAGACTCTATAAGGAGCTTCAGAGACATCAGAAGTTGGACCAGCAGCGTACAGC
CAGGATAATACAGGAGTTGTCAGATGCCCTGACCTACTGCCATGAGAAGAAGGTGATTCACAGGGACATC
AAGCCAGAGAATCTCCTGCTGGGCTCAATGGTGAGGTGAAGATCTCAGACTTTGGGTGGTCTGTGCATA
CCCCCTCTCTCAGGAGAAAGACAATGTGTGGGACTCTGGACTACTGCCCCGGAAATGATAGCGCAGAA
ACCGTACAATGAGATGGTTGATCTGTGGTGCAATGGGGTGCTCTGCTATGAGCTGCTGGTGGGGAAGCCA
CCCTTTGAGAGCAGCACCTCCAGTGAGACATACAGACGCATCCGCCAGGTGGATTTTAAAGTTTCCTTCAT
CAGTACCTGCAGGAGCCCAGGACTTGATCTCCAAGCTTCTTAGGTACCATCCTTCAGAGCGGCTGAGCCT
GGCCAGGTCTGAAGCACCCCTGGGTCAGGGAACACTCTCGAAGGGTGCTTCTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001080966.1 , NP_001074435.1
RefSeq Size:	1454 bp
RefSeq ORF:	831 bp
Locus ID:	20871
UniProt ID:	O88445
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]

Product images:



Circular map for MG216975