

## Product datasheet for **RG218180**

### Aurora C (AURKC) (NM\_003160) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aurora C (AURKC) (NM_003160) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aurora C
Synonyms:	AIE2; AIK3; ARK3; AurC; aurora-C; HEL-S-90; SPGF5; STK13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218180 representing NM_003160 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCGCCTCACAGTCGATGACTTTGAAATCGGGCGTCCCCTGGGCAAGGGGAAATTTGGGAATGTGT  
ACCTGGCTCGGCTCAAGGAAAGCCATTTTCATTGTGGCCCTGAAGTTCTCTTCAAGTCGCAGATAGAGAA  
GGAAGGACTGGAGCACCAGCTGCGCCGGGAAATTGAGATCCAGGCTCATCTACAACACCCCAATATCCTG  
CGCCTGTATAACTATTTCCATGATGCACGCCGGGTGTACCTGATTCTGGAATATGCTCCAAGGGGTGAGC  
TCTACAAGGAGCTGCAGAAAAGCGAGAAATTAGATGAACAGCGCACAGCCACGATAATAGAGGAGTTGGC  
AGATGCCCTGACCTACTGCCATGACAAGAAAGTGATTCACAGAGATTAAGCCAGAGAACCTGCTGCTG  
GGGTTCCAGGGGTGAGGTGAAGATTGCAGATTTTGGCTGGTCTGTGCACACCCCTCCCTGAGGAGGAAGA  
CAATGTGTGGGACTGGACTACTTGCCGCCAGAAATGATTGAGGGGAGAACATATGATGAAAAGGTGGA  
TTTGTGGTGCATTGGAGTGTCTGCTATGAGCTGCTGGTGGGATATCCACCCTTTGAGAGCGCCTCCAC  
AGTGAGACTTACAGACGCATCCTCAAGGTAGATGTGAGGTTTCCACTATCAATGCCTCTGGGGGCCCGGG  
ACTTGATTTCCAGGCTTCTCAGATACCAGCCCTGGAGAGACTGCCCTGGCCAGATCCTGAAGCACCC  
CTGGGTTCCAGGCCACTCCGAAGGGTGTGCTCCCTGTGCTCAGATGGCTTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218180 representing NM\_003160  
 Red=Cloning site Green=Tags(s)

MRRLTVDDFEIGRPLGKGFVNLARLKESHFIVALKVLFKSQIEKEGLEHQLRREIEIQAHLQHPNILL  
 RLYNYFHDARRVYLILEYAPRGELYKELQKSEKLDEQRTATIIIEELADALTYCHDKKVIHRDIKPENLLL  
 GFRGEVKIADFGWSVHTPSLRRTMCGTLDYLPPEMIEGRTYDEKVDLWCIGVLCYELLVGYPFESASH  
 SETYRRILKVDVRFPLSMPLGARDLISRLLRYQLERLPLAQILKHPWVQAHSRRVLPQCAQMAS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003160

**ORF Size:** 825 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\\_003160.3](#)

**RefSeq Size:** 1125 bp

**RefSeq ORF:** 828 bp

**Locus ID:** 6795

**UniProt ID:** [Q9UQB9](#)

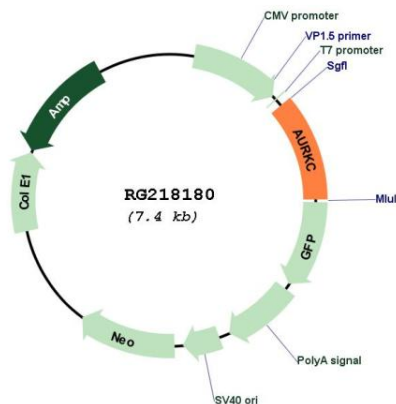
**Cytogenetics:** 19q13.43

**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** This gene encodes a member of the Aurora subfamily of serine/threonine protein kinases. The encoded protein is a chromosomal passenger protein that forms complexes with Aurora-B and inner centromere proteins and may play a role in organizing microtubules in relation to centrosome/spindle function during mitosis. This gene is overexpressed in several cancer cell lines, suggesting an involvement in oncogenic signal transduction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG218180