

Product datasheet for **RC402545**

Aurora C (AURKC) (NM_001015878) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	Aurora C (AURKC) (NM_001015878) Human Mutant ORF Clone
Mutation Description:	Y248X
Affected Codon#:	248
Affected NT#:	744
Nucleotide Mutation:	AURKC Mutant (Y248X), Myc-DDK-tagged ORF clone of Homo sapiens aurora kinase C (AURKC), transcript variant 1 as transfection-ready DNA
Effect:	Poenil proein defiieny
Symbol:	AURKC
Synonyms:	AIE2; AIK3; ARK3; AurC; aurora-C; HEL-S-90; SPGF5; STK13
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_001015878
ORF Size:	741 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC402545 representing NM_001015878
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTCCCCAGAGCTGTGGTGCAGCTGGGCAAAGCTCAACCTGCAGGCGAAGAGTTGGCTACAGCAA
 ACCAAACAGCCAGCAGCCAGCAGCCAGCCATGCGGCGCTCACAGTCGATGACTTTGAAATCGGGCG
 TCCCTGGGCAAGGGAAATTTGGGAATGTGTACCTGGCTCGGCTCAAGGAAAGCCATTTTATTGTGGCC
 CTGAAGTTCTCTTCAAGTCGCAGATAGAGAAGGAAGGACTGGAGCACCAGCTGCGCCGGGAAATTGAGA
 TCCAGGCTCATCTACAACACCCCAATATCTGCGCCTGTATAACTATTTCCATGATGCACGCCGGGTGTA
 CCTGATTCTGGAATATGCTCCAAGGGGTGAGCTCTACAAGGAGCTGCAGAAAAGCGAGAAATTAGATGAA
 CAGCGCACAGCCACGATAATAGAGGAGTTGGCAGATGCCCTGACCTACTGCCATGACAAGAAAGTGATTC
 ACAGAGATATTAAGCCAGAGAACCTGCTGCTGGGGTTCAGGGGTGAGGTGAAGATTGCAGATTTGGCTG
 GTCTGTGCACACCCCTCCCTGAGGAGGAAGACAATGTGTGGGACTGGACTACTTGCCGCCAGAAATG
 ATTGAGGGGAGAACATATGATGAAAAGGTGGATTTGTGGTGCATTGGAGTGCTCTGCTATGAGCTGCTGG
 TGGGATATCCACCTTTGAGAGCGCCTCCACAGTGAGACT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC402545 representing NM_001015878
 Red=Cloning site Green=Tags(s)

MSSPRAYVQLGKAQPAGEELATANQTAQQPSSPAMRRLTVDDFEIGRPLGKGFKNVYLARLKESHFIVA
 LKVLFKSQIEKEGLEHQLRREIEIQAHLQHPNLRILRINYFHDARRVYLILEYAPRGELYKELQKSEKLDE
 QRTATIIIEELADALTYCHDKKVIHRDIKPENLLLGFGEVKIADFWSVHTPSLRRTMCGTLDYLPPEM
 IEGRTYDEKVDLWCIGVLCYELLVGYPPEFESASHSET

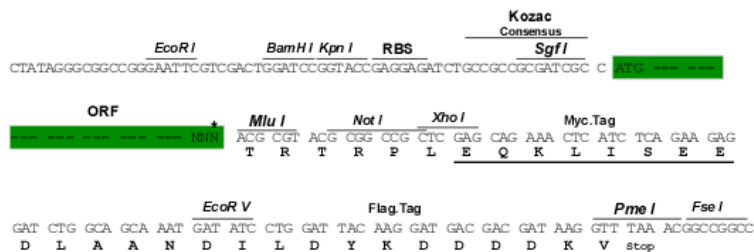
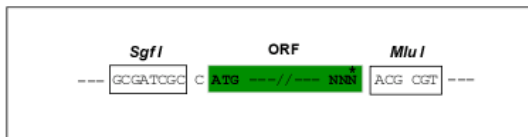
SGPTRRRLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

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).
RefSeq:	NP_001015878
RefSeq Size:	741 bp
RefSeq ORF:	930 bp
Locus ID:	6795
Cytogenetics:	19q13.43
Protein Families:	Druggable Genome, Protein Kinase
MW:	27.2 kDa
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]