

# Product datasheet for MR203721L4

# Aurkc (NM\_020572) Mouse Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Aurkc (NM_020572) Mouse Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Aurkc
Synonyms:	AIE1; AIK3; ARK-3; IAK3; Stk13
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR203721).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
U	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Miu I            GCG ATC GC         ATG // NNN         ACG CGT

ACCN: ORF Size: NM\_020572 831 bp

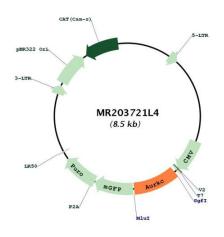


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Service Aurkc (NM_020572) Mouse Tagged Lenti ORF Clone – MR203721L4	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene 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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 020572.2, NP 065597.2</u>
RefSeq Size:	1332 bp
RefSeq ORF:	831 bp
Locus ID:	20871
UniProt ID:	<u>088445</u>
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]

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# **Product images:**



Circular map for MR203721L4

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