

## Product datasheet for RC219135

### AATK (NM\_001080395) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AATK (NM_001080395) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AATK
Synonyms:	AATYK; AATYK1; LMR1; LMTK1; p35BP; PPP1R77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219135 representing NM_001080395 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GACGTGCTGACGGTGACCGAGACCAGCCGAGGCCCTCAATTTTGTAGTACAAGTGGGAGGCGGGCCGCGGCCG  
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**Protein Sequence:** >RC219135 representing NM\_001080395  
 Red=Cloning site Green=Tags(s)

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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

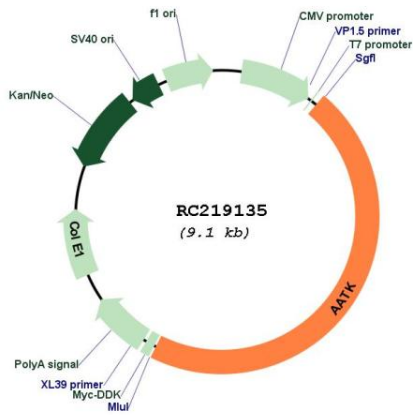


**ACCN:** NM\_001080395

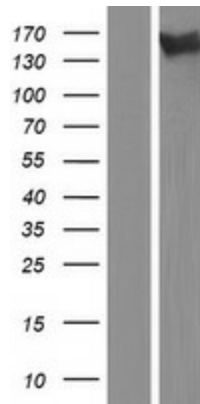
**ORF Size:** 4203 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_001080395.1</a>, <a href="#">NP_001073864.1</a></p>
<b>RefSeq Size:</b>	<p>5843 bp</p>
<b>RefSeq ORF:</b>	<p>4125 bp</p>
<b>Locus ID:</b>	<p>9625</p>
<b>UniProt ID:</b>	<p><a href="#">Q6ZMQ8</a></p>
<b>Cytogenetics:</b>	<p>17q25.3</p>
<b>Protein Families:</b>	<p>Druggable Genome, Protein Kinase</p>
<b>MW:</b>	<p>148.28 kDa</p>
<b>Gene Summary:</b>	<p>The protein encoded by this gene contains a tyrosine kinase domain at the N-terminus and a proline-rich domain at the C-terminus. This gene is induced during apoptosis, and expression of this gene may be a necessary pre-requisite for the induction of growth arrest and/or apoptosis of myeloid precursor cells. This gene has been shown to produce neuronal differentiation in a neuroblastoma cell line. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]</p>

Product images:



Circular map for RC219135



Western blot validation of overexpression lysate (Cat# [LY421613]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219135 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).