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Product datasheet for RG235251

AATK (NM_004920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AATK (NM_004920) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AATK
Synonyms:	AATYK; AATYK1; LMR1; LMTK1; p35BP; PPP1R77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG235251 representing NM_004920
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAAGCAGCCTGGGCGCTCAGTGCAGCTCCTCAAGTCCACAGACGTGGGCCGGCACAGCCTCCTGT
ACCTGAAGGAAATCGGCCGTGGCTGGTTCGGGAAGGTGTTCCTGGGGGAGGTGAACTCTGGCATCAGCAG
TGCCCAGGTGGTGGTGAAGGAGCTGCAGGCTAGTGCCAGCGTGCAGGAGCAGATGCAGTTCCTGGAGGAG
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TACCCTCGCAGAAGCTTGGCGCGGGACCCGCTCTGCCCCTCACGCTCTCCCTCGCCCTCGGCGGGGCCCC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235251 representing NM_004920
Red=Cloning site Green=Tags(s)

MAKQPGRSVQLLKSTDVGRHSLLYLKEIGRGWFGKVFLGEVNSGISSAQVVVKELQASASVQEQMQFLEE
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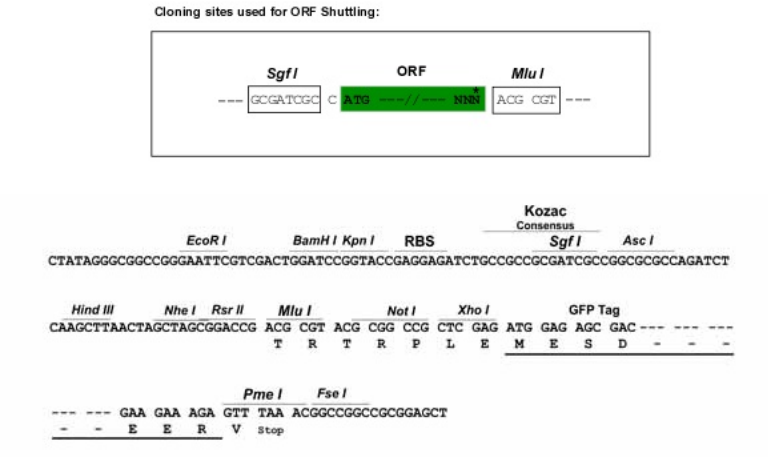
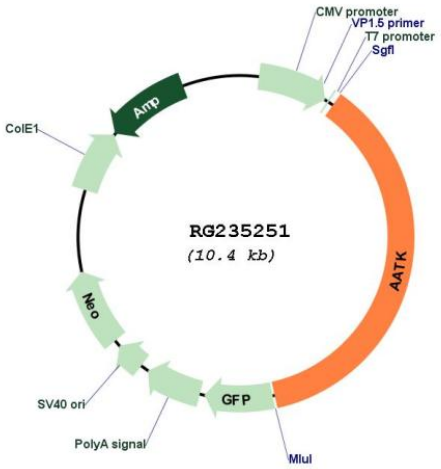
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_004920
ORF Size:	3813 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_004920.2, NP_004911.2
RefSeq Size:	5105 bp
RefSeq ORF:	3816 bp
Locus ID:	9625
UniProt ID:	Q6ZMQ8
Cytogenetics:	17q25.3

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: 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]