

Product datasheet for **MG208444**

Aatf (BC025080) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aatf (BC025080) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aatf
Synonyms:	MGC35916, Che-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208444 representing BC025080
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCCGACGCCCTTGGCTCTGCAGCTGGAACAGTTGCTGAATCCGAGACCCGCTGAGGCGGATC
 CTGAGGCCGACCCGAGGAGGCCACTAGAGCCAGAGTGATTGACAGGTTTGATGAAGGGGAAAGAGAGAA
 AGATGATCTGGCAGTGAGTAGCATTAGAAAAGTTGGCACCAGTCTCCCTCTTGACACCGACAAAAGGTAT
 TCTGGCAAGACCCTTCTAGGAAAGCTTGGAAAGAAGACCATTGGGAGCAGGCTCTGCCAAGTTCATCTG
 ATAACGAAGCATCTGATGAGGGAGGATCTGAAGATGGGGATTGAGGGCCTGGGCTGGAGGAGATCTC
 AGAAGATGTTGACGAAGACTTAGAAGACAACAAAATATCTGATGAGGGAGGATCTGAAGATGGGGATTCA
 GAGGGCCTGGGCCTGGAAGATTCTCAGAAGATGTTGAGGAGGACTTAGAAGGTGAGGATGAGGAAGACA
 GAGAAGAAGACAGGAACAGTGAAGATGATGGTGTGGTGGCAGCCTTCTCCAGTGTCAAAGTTTCTGAGGA
 AGTGGAAAAGGAAGAGCTGTGAAGAATCAGATAGCATTGTGGGACCAGCTCTTGAAGGAAGGATCAAG
 CTACAAAAGCTCTCTTGACTACCAATCAGTTGCCTCAACCAGATGTTTTCCCTGTCTTCAAGGACAAAAG
 GTGGCCCAAGAATTTGCCAGTGCTCTGAAAAATAGTCACAAAGCACTTAAAGCCTTGTTAAGGTCATTGGT
 GGATCTTCAGGAAGAGTTGCTTTTCCAGTACCCAGACACGAGACATATAGTAAATGGGGCGAAACCCAAT
 ACAGAGAGTGAGGAGATTTCCAGTGAAGATGATGAGCTAGTGGGAGAGAAGAAGAAACAACGAAAGGCC
 CACCCAAGAGGAAGCTAGAGATGGAGGACTATCCAGCTTCATGGCAAAGCGCTTTGCTGACTTCACCAT
 CTATAGGAATCACACACTACAGAAATGGCATGATAAAACCAAGCTTGCTTCTGAAAACTGGGCAAGGGT
 TTTGGTGCCTTCGAACGCTCGATCTTGACTCAGATCGATCATATCATGATGGACAAGAAAGATTGCTTC
 GGAGGACACAGACCAAGCGCTCTGCCTACCGAGTTCTTGGCAAACCGGAGCCAGTCCCTGAGCCTGTTGC
 AGAGACCTTGCCAGGAGAACCAGAGACGCTTCTCAGGGCCCTGCCAATGCCACCTGAGGGACTTGGAT
 GAGGAGATATTTGATGATGATGACTTTTACCACCAGCTCCTTCGAGAACTCATAGAGCGGAAAACAGCT
 CTTTGGATCCAAATGATCAGGTGGCCATGGGAAGGCAGTGGCTTGCAATCCAGAACTACGAAGCAAAAT
 CCGCAAGAAGGTAGATAGAAAAGCCAGCAAAAGGAAGAACTTCGGTTCCATGTCCTTAGCAAGCTCCTG
 AGTTTCATGGCACCTATTGACCACCCGCAATGAGTGATGATGCCAGGACGGAGTTGTTTCGATCTCTTT
 TCGGCCAGCTCAACCCTCTGATGCAGACCGTGGGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208444 representing BC025080
 Red=Cloning site Green=Tags(s)

MAAPQPLALQLEQLLNPRPREADPEADPEEATRARVIDRFDEGEEEKDDLAVSSIRKLPVSLLDTDKRY
 SGKTTSRKAWKEDHWEQALPSSSDNEASDEGGSEDDGSEGLGLEEISEDVDELDENKISDEGGSEDDGS
 EGLGLEEFSEDVEEDLEGEDEEDREEDRNSEDDGVVAAFSSVKVSEEVKGRAVKNQIALWDQLLEGRIK
 LQKALLTTNQLPQPDVFPVFKDKGGPEFASALKNSHKALKALLRSLVDLQEELLFQYPTDRHIVNGAKPN
 TESEEISSEDDDELVGEKKKQRKAPPKRKLEMEDYPSFMAKRFADFTIYRNHTLQKWHDKTKLASGKLGK
 FGAFERSILTQIDHIMMDKERLLRRTQTKRSAYRVLGKPEVPPEVAETLPGEPELTPQGPANHLRDL
 EEIFDDDDFYHQLLRELIERKTSLLDPNDQVAMGRQWLAIQKLRKIRKKVDRKASKGRKLRHVLSKLL
 SFMAPIDHTAMSDARTELFRLSFLGQLNPPDADRGRK

TRTRPLE – GFP Tag – V

Restriction Sites:

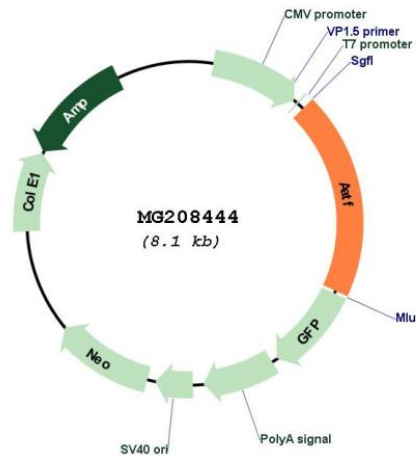
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	BC025080
ORF Size:	1580 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:	<ol style="list-style-type: none">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:	BC025080 , AAH25080
RefSeq Size:	1800 bp
RefSeq ORF:	1580 bp
Locus ID:	56321
Cytogenetics:	11 C
Gene Summary:	May function as a general inhibitor of the histone deacetylase HDAC1. Binding to the pocket region of RB1 may displace HDAC1 from RB1/E2F complexes, leading to activation of E2F target genes and cell cycle progression. Conversely, displacement of HDAC1 from SP1 bound to the CDKN1A promoter leads to increased expression of this CDK inhibitor and blocks cell cycle progression (By similarity).[UniProtKB/Swiss-Prot Function]