

Product datasheet for **MG217018**

Aen (NM_001162939) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aen (NM_001162939) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aen
Synonyms:	2700083B06Rik; Isg2011
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217018 representing NM_001162939 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCAGGGGAAGTCCCGAGTCTACTCAGTGTCCATCTCTCACCAGCCTGAATACCAAGGATGTGG
TTCGGAGAAGACACAAGAGGAGAAGCCGGCAGCACCAGCGATTTCATGGCCCGCAAGGCCCTTGCTCAGGA
GCAGGAGCTGTTGAGCACGGCACCAGGGCCAGGTCTCTGCCTTCTGCCTTACCATCACAGATGCCAGCG
GTCACAGAGGCTTCGGACAGCAGGAGGCAACGTCCAAGGCCAGGTCCGGCAGCAATGGCCTGTGCAGCA
AAAAGTCTGTCCCAGAGAAGCTCCAAGACCTGGGCCATCAAGTGTGTGGCCATTGACTGTGAGATGGT
GGGTACGGGCCCCCAAGGACGGGTGAGCGAGCTAGCCCGCTGCTCTGTGGTGTGAGCTACAGTGGTGCAGTT
CTCTATGACAAATACATCCGGCCTGAAATGCCATTGTGGACTATCGCACCCGCTGGAGTGGCATCACCC
GCCAGCATGCACAAGGCTATCCCTTTTCAGGTGGCCAGAAGGAGATCCTTAAGCTGTTGAAGGGCAA
GGTGGTGGTGGGGCAGCAGTGCACAATGACTTCCAGGCCCTGAAGTACGTCCACCCTCGGAGCCAGACC
CGGATACCACTTATGTCCAAACCTGCTCAGCCAGCCAGCTCCCTTATCCGAAGTCCGGTCTCTCTTA
AGGACCTGGCCTTGAACCTGCTGCACAAGAAGATCCAGGTGGTCCAGGAGCCAGTCCATCTGTGGAAGA
TGCCATGACAGCCATGGAGTTGTACCAGCTGGTGGAGTGCAGTGGGAGCAGCAAGTGGCCAGCTCTGCC
CAGGCCCTGCTGAGGACAGGGGCCCGACAGCAGCACTGACGTGGAGCAGTACATGGACAGCAGTACT
GGCCCGAGGACCTGACCCAGAGCACCGGGCCGAGACAAATGGAGGCCAGATAGACAGGAGGGAGAGGA
AGGCAGGGAGCCAGGAGTGTCTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217018 representing NM_001162939
 Red=Cloning site Green=Tags(s)

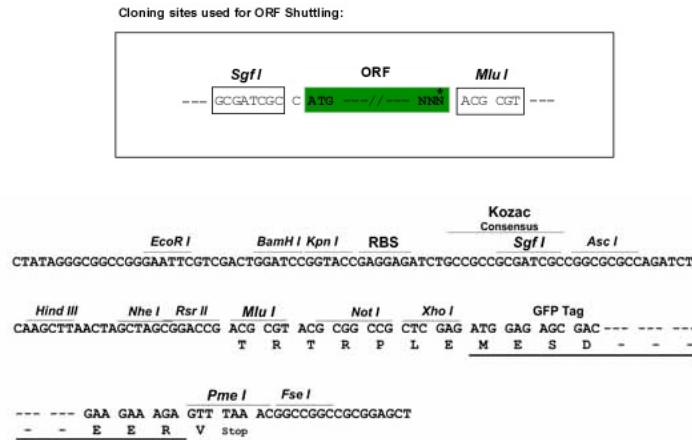
MVAGEVPESTQCPSLTSLNKDVRRRHKRRSRQHQRFMARKALLQEQLLSTAPGPGCLLLPSPSQMPA
 VTEASDRRQRPKARSGSNGLCSKKSVPREAPRPGPIKCAIDCEMVGTGPQGRVSELARCSVVSYSGDV
 LYDKYIRPEMPIVDYRTRWSGITRQHMHKAI PFQVAQKEILKLLKGKVVVGHALHND FQALKYVHPRSQT
 RDTTYVPNLLSQPSSLIRTRVSLKDLALNLLHKKIQVGHQGHSSVEDAMTAMELYQLVEVQWEQQVASSA
 QAPAEDRGPDSSTDVEQYMDDQYWPEDLTQSTGAETNGGPDRQEGEEGQGARSAPP

TRTRPLE - GFP Tag - V

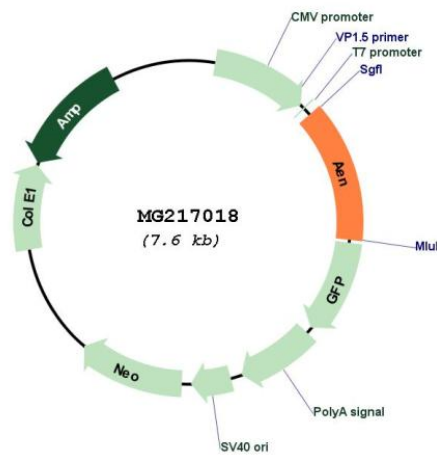
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001162939

ORF Size: 894 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:	NM_001162939.1 , NP_001156411.1
RefSeq Size:	2466 bp
RefSeq ORF:	897 bp
Locus ID:	68048
UniProt ID:	Q9CZ19
Cytogenetics:	7 D2
Gene Summary:	Exonuclease with activity against single- and double-stranded DNA and RNA. Mediates p53-induced apoptosis. When induced by p53 following DNA damage, digests double-stranded DNA to form single-stranded DNA and amplifies DNA damage signals, leading to enhancement of apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]