

Product datasheet for MR204998

Aen (NM_026531) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aen (NM_026531) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aen
Synonyms:	2700083B06Rik; Isg2011
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204998 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCAGGGGAAGTCCCGAGTCTACTCAGTGTCCATCTCTCACCAGCCTGAATACCAAGGATGTGG
TTCGGAGAAGACACAAGAGGAGAAGCCGGCAGCACCAGCGATTTCATGGCCCGCAAGGCCCTTGCTCAGGA
GCAGGAGCTGTTGAGCACGGCACCAGGGCCAGGTCTCTGCCTTCTGCCTTACCATCACAGATGCCAGCG
GTCACAGAGGCTTCGGACAGCAGGAGGCAACGTCCAAGGCCAGGTCCGGCAGCAATGGCCTGTGCAGCA
AAAAGTCTGTCCCAGAGAAGCTCCAAGACCTGGGCCATCAAGTGTGTGGCCATTGACTGTGAGATGGT
GGGTACGGGCCCCCAAGGACGGGTGAGCGAGCTAGCCCGCTGCTCTGTGGTGTGAGCTACAGTGGTGCAGTT
CTCTATGACAAATACATCCGGCCTGAAATGCCATTGTGGACTATCGCACCCGCTGGAGTGGCATCACCC
GCCAGCACATGCACAAGGCTATCCCTTTTCAGGTGGCCAGAAGGAGATCCTTAAGCTGTTGAAGGGCAA
GGTGGTGGTGGGGCAGCACTGCACAATGACTTCCAGGCCCTGAAGTACGTCCACCCTCGGAGCCAGACC
CGGATACCACTTATGTCCAAACCTGCTCAGCCAGCCAGCTCCCTTATCCGAAGTCCGGTCTCTCTTA
AGGACCTGGCCTGAACCTGCTGCACAAGAAGATCCAGGTGGTCCAGGAGCCAGTCCATCTGTGGAAGA
TGCCATGACAGCCATGGAGTTGTACCAGCTGGTGGAGTGCAGTGGGAGCAGCAAGTGGCCAGCTCTGCC
CAGGCCCTGCTGAGGACAGGGGCCCGACAGCAGCACTGACGTGGAGCAGTACATGGACGACAGTACT
GGCCCGAGGACCTGACCCAGAGCACCGGGGCCGAGACAAATGGAGGCCAGATAGACAGGAGGGAGAGGA
AGGCAGGGAGCCAGGAGTGTCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR204998 protein sequence
 Red=Cloning site Green=Tags(s)

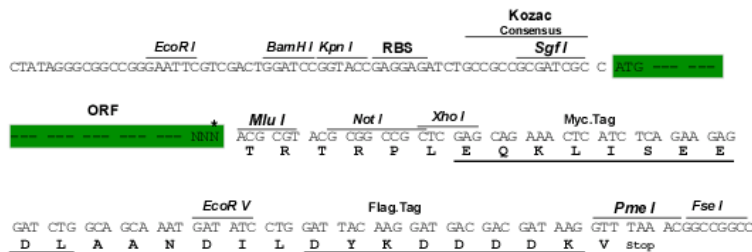
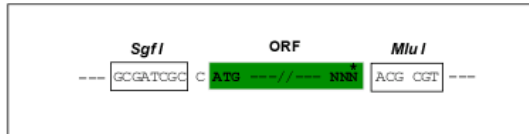
MVAGEVPESTQCPSLTSLNKDVRRRHKRRSRQHQRFMARKALLQEELLSTAPGPGCLLLPSPSQMPA
 VTEASDSRRQRPKARSGSNGLCSKKSVPREAPRPGPIKCAIDCEMVGTPQGRVSELARCSVVSYSGDV
 LYDKYIRPEMPIVDYRTRWSGITRQHMHKAI PFQVAQKEILKLLKGKVVVGHALHNDFFQALKYVHPRSQT
 RDTTYVPNLLSQPSSLIRTRVSLKDLALNLLHKKIQVGHQGHSSVEDAMTAMELYQLVEVQWEQQVASSA
 QAPAEDRGPSSTDVEQYMDQYWPEDLTQSTGAETNGGPDRQEGEEGQGARSAPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026531

ORF Size: 1011 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_026531.5](#)

RefSeq Size: 2580 bp

RefSeq ORF: 1011 bp

Locus ID: 68048

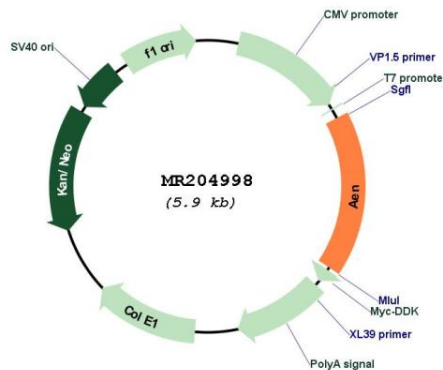
UniProt ID: [Q9CZ19](#)

Cytogenetics: 7 D2

MW: 37.3 kDa

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]

Product images:



Circular map for MR204998