

Product datasheet for MR217018

Aen (NM_001162939) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aen (NM_001162939) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aen
Synonyms: 2700083B06Rik; Isg2011
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR217018 representing NM_001162939
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCAGGGGAAGTCCCGAGTCTACTCAGTGTCCATCTCTCACCAGCCTGAATACCAAGGATGTGG
TTCGGAGAAGACACAAGAGGAGAAGCCGGCAGCACCAGCGATTCATGGCCCGCAAGGCCTTGCTTCAGGA
GCAGGAGCTGTTGAGCACGGCACCAGGGCCAGGTCTCTGCCTTCTGCCTTACCATCACAGATGCCAGCG
GTCACAGAGGCTTCGGACAGCAGGAGGCAACGTCCCAAGGCCAGGTCCGGCAGCAATGGCCTGTGCAGCA
AAAAGTCTGTCCCAGAGAAGCTCCAAGACCTGGGCCCATCAAGTGTGTGGCCATTGACTGTGAGATGGT
GGGTACGGGCCCCCAAGGACGGGTGAGCGAGCTAGCCCGTCTCTGTGGTGAGCTACAGTGGTGACGTT
CTCTATGACAAATACATCCGGCCTGAAATGCCATTGTGGACTATCGCACCCCGTGGAGTGGCATCACCC
GCCAGCACATGCACAAGGCTATCCCTTTTCAGGTGGCCAGAAGGAGATCCTTAAGCTGTTGAAGGGCAA
GGTGGTGGTGGGGCAGCACTGCACAATGACTTCCAGGCCCTGAAGTACGTCCACCCTCGGAGCCAGACC
CGGGATACCACTTATGTCCAAACCTGCTCAGCCAGCCAGTCCCTTATCCGAACCTCGGTCTCTCTTA
AGGACCTGGCCTTGAACCTGCTGCACAAGAAGATCCAGTCCAGTCCAGGAGGAGCAGCAAGTGGCCAGCTCTGCC
TGCCATGACAGCCATGGAGTTGTACCAGCTGGTGGAGGTGCAGTGGGAGCAGCAAGTGGCCAGCTCTGCC
CAGGCCCTGCTGAGGACAGGGGCCCGACAGCAGCACTGACGTGGAGCAGTACATGGACGACCAGTACT
GGCCCCGAGGACCTGACCCAGAGCACCAGGGGCCGAGACAAATGGAGGCCAGATAGACAGGAGGGAGAGGA
AGGGCAGGGAGCCAGGAGTGCTCCTCCC

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217018 representing NM_001162939
 Red=Cloning site Green=Tags(s)

MVAGEVPESTQCPSLTSLNTKDVRRRHKRRSRQHQRFRMARKALLQEELLSTAPGPGCLLLPSPSQMPA
 VTEASDSRRQRPKARSGSNGLCSKKSVPREAPRPGPIKCAVIDCEMVGTPQGRVSELARCSVVSYSGDV
 LYDKYIRPEMPIVDYRTRWSGITRQHMHKAI PFQVAQKEILKLLKGKVVVGHALHNDFFQALKYVHPRSQT
 RDTTYVPNLLSQPSSLIRTRVSLKDLALNLLHKKIQVGHQGHSSVEDAMTAMELYQLVEVQWEQQVASSA
 QAPAEDRGPDSSTDVEQYMDQYWPEDLTQSTGAETNGGPDRQEGEEGQGARSAPP

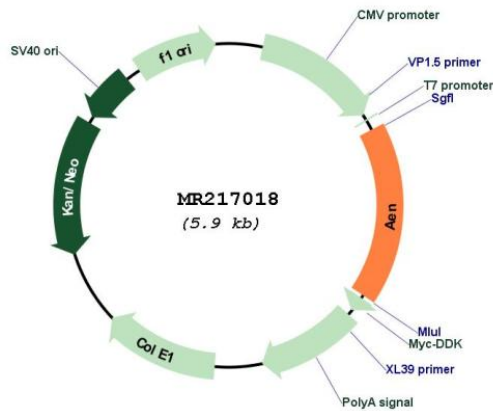
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001162939

ORF Size: 1008 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 Size:	2466 bp
RefSeq ORF:	897 bp
Locus ID:	68048
UniProt ID:	Q9CZ19
Cytogenetics:	7 D2
MW:	33.3 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]