

## Product datasheet for **RR210881**

### Aen (NM\_001108487) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aen (NM_001108487) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aen
Synonyms:	Isg2011; RGD1305051
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210881 representing NM_001108487 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTGCCAGGGAAGTCCCTGAGTCTTCCCTCACTAGCCTGAAGACCAAGGATGTGGCTCGGAGGAGAC  
ACAAAAGGAGAAGCCGGCAGCACCAGCGGTTTCATGGCCCGCAAGGCTTGCTTCAGGAGCAGGAGTCGTT  
GAGCATGGTACCAGGGCCAGGACTCTGCCCTCTGCCCTCCCAACACAGACGCCAGCAGGCACAGAGGCT  
TCAGGCAACAGGAAACAACGTACCAAGGCCAGGCTGGCAGCAAAGGCCTGTGTAGCAAAAAGGCCTGTCC  
CCAGAGAAGCCCCAAGCTCTGGGCCAGCAAGTATGTGGCCATTGACTGTGAGATGGTGGTACCGGCC  
CCAAGGGCGAGTGAGTGAGCTAGCCCGTCTCCGTGGTGGTACAGTGGTGTGTTCTCTATGACAAG  
TACATCCGGCCTGAAATGCCCATTTGGGACTATCGAACCCTGGAGCGGCATTACCCGTCAGCACATGC  
ACAAGGCTATCCCCTTTCAGGTGGCCAGAAAGGAGATCCTTAAGCTGCTGAAGGGCAAGGTGGTGGTGGG  
GCATGCACTGCACAATGACTTCCAGGCCCTGAAGTACGTCCACCCTGGGAGCCAGATCCGGGATACGACT  
TATGTCCCAAACCTGCTCAGCCAGCCAGCTCCCTCACCCGAGCTCGGGTCTCTCTTAAGGACCTGGCCC  
TGAACCTGCTGCACAAGAAGATCCAGGTAGGTCACCATGGACACTCATCTGTGGAGGATGCCATGACAGC  
CATGGAGCTGTACCAGCTGGTGGAGGTGCAGTGGGAACAGCAAGTGGCCAGCACCCGCAAGGCCCATCCT  
GAGGACAGGGCCCTGACAGCAGCACTGATGTGGAGCAGTACATGGACGACCAGTACTGGCCTGAGGACC  
TGGCCAGAGCACCAGGGGAGACACAAGGGAGGCCAGGATAGACAGGAGGGAGAGGAAGGGCAGGGAGC  
CAGGAGTGCTCCTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210881 representing NM\_001108487  
Red=Cloning site Green=Tags(s)

MVPREVPESLSTSLKTKDVARRRHKRRSRQHQRFMARKALLQEESLSMVPGPGLCPLPSPTQTPAGTEA  
 SGNRKQRTKARSGSKGLCSKRPVPREAPSSGPKYVAIDCEMVGTPQGRVSELARCSVVSYSGDVLYDK  
 YIRPEMPIVDYRTRWSGITRQHMKAIPFQVAQKEILKLLKGVVVGHALHNDFAQLYVHPGSQIRDTT  
 YVFNLLSQPSSLTRARVSLKDLALNLLHKKIQVGHGHSSVEDAMTAMELYQLVEVQWEQQVASTAKAHP  
 EDRGPDSSSTDVEQYMDQYWPEDLAQSTRGDTREAQDRQEEGEQGARSAPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

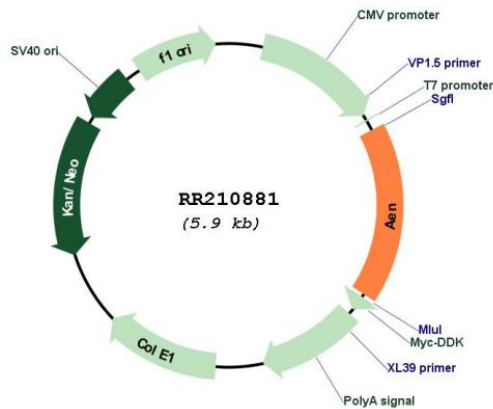
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001108487

**ORF Size:** 996 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001108487.2</a> , <a href="#">NP_001101957.1</a>
<b>RefSeq Size:</b>	2402 bp
<b>RefSeq ORF:</b>	999 bp
<b>Locus ID:</b>	361594
<b>UniProt ID:</b>	<a href="#">B2GUW6</a>
<b>Cytogenetics:</b>	1q31
<b>MW:</b>	37.1 kDa
<b>Gene Summary:</b>	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]