

## Product datasheet for **MG227286**

### Aicda (NM\_009645) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aicda (NM\_009645) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aicda  
**Synonyms:** Aid; Arp2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG227286 representing NM\_009645  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGCCTTCTGATGAAGCAAAGAAGTTTCTTTACCATTTCAAAAATGTCCGCTGGGCCAAGGGAC  
GGCATGAGACCTACCTCTGCTACGTGGTGAAGAGGAGAGATAGTGCCACCTCCTGCTCACTGGACTTCGG  
CCACCTTCGCAACAAGTCTGGCTGCCACGTGGAATTGTTGTTCTACGCTACATCTCAGACTGGGACCTG  
GACCCGGCCGGTGTACCGCTCACCTGGTTCACCTCCTGGAGCCCGTGTATGACTGTGCCCGGCACG  
TGCTGAGTTTCTGAGATGGAACCCTAACCTCAGCCTGAGGATTTTACCAGCGCCCTCTACTTCTGTGA  
AGACCGCAAGGCTGAGCCTGAGGGGCTGCGGAGACTGCACCGCGCTGGGGTCCAGATCGGGATCATGACC  
TTCAAAGACTATTTTACTGCTGGAATACATTTGTAGAAAATCGTGAAAGAACTTCAAAGCCTGGGAAG  
GGCTACATGAAAATTCTGTCCGGCTAACAGACAACCTTCGGCGCATCCTTTTGCCCTGTACGAAGTCGA  
TGACTTGGCAGATGCATTTTCGTATGTTGGGATT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG227286 representing NM\_009645  
Red=Cloning site Green=Tags(s)

MDSLLMKQKFLYHFKNVRWAKGRHETLYCYVVKRRDSATSCSLDFGHLRNKSGCHVELLFLRYISDWDL  
DPGRCYRVTWFTSWSPCYDCARHVAEFLRWPNLSLRIFARLYFCEDRKAEPGLRRLHRAGVQIGIMT  
FKDYFYCWNTFVENRERTFKAWEGLHENSURLTRQLRRILLPLYEVDLDRDAFRMLGF

**TRTRPLE** - GFP Tag - V

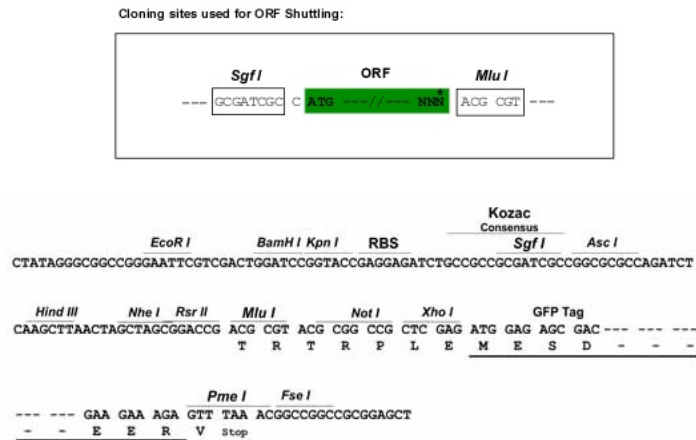
**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2266\\_g12.zip](https://cdn.origene.com/chromatograms/ja2266_g12.zip)



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**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009645

**ORF Size:** 594 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

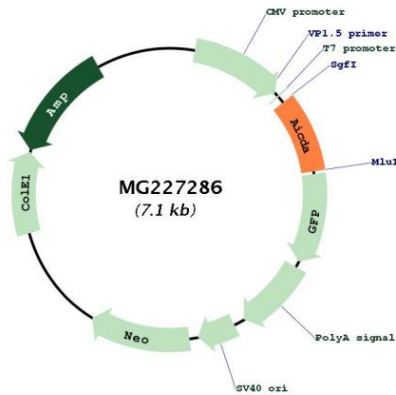
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_009645.2, NP\\_033775.1](#)  
**RefSeq Size:** 2413 bp  
**RefSeq ORF:** 597 bp  
**Locus ID:** 11628  
**UniProt ID:** [Q9WVE0](#)  
**Cytogenetics:** 6 F1  
**Gene Summary:**

Single-stranded DNA-specific cytidine deaminase. Involved in somatic hypermutation (SHM), gene conversion, and class-switch recombination (CSR) in B-lymphocytes by deaminating C to U during transcription of Ig-variable (V) and Ig-switch (S) region DNA. Required for several crucial steps of B-cell terminal differentiation necessary for efficient antibody responses. May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG227286