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Product datasheet for MR227286

Aicda (NM_009645) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aicda (NM_009645) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aicda
Synonyms:	Aid; Arp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227286 representing NM_009645
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACAGCCTTCTGATGAAGCAAAAGAAGTTTCTTTACCATTTCAAAAATGTCCGCTGGGCCAAGGGAC
GGCATGAGACCTACCTCTGCTACGTGGTGAAGAGGAGAGATAGTGCCACCTCCTGCTCACTGGACTTCGG
CCACCTTCGCAACAAGTCTGGCTGCCACGTGGAATTGTTGTTCCTACGCTACATCTCAGACTGGGACCTG
GACCCGGGCCGGTGTTACCGCGTCACCTGGTTCACCTCCTGGAGCCCGTGCTATGACTGTGCCCGGCACG
TGGCTGAGTTTCTGAGATGGAACCCTAACCTCAGCCTGAGGATTTTCACCGCGCGCCTCTACTTCTGTGA
AGACCGCAAGGCTGAGCCTGAGGGGCTGCGGAGACTGCACCGCGCTGGGGTCCAGATCGGGATCATGACC
TTCAAAGACTATTTTTACTGCTGGAATACATTTGTAGAAAATCGTGAAAGAACTTTCAAAGCCTGGGAAG
GGCTACATGAAAATTCTGTCCGGCTAACCAGACAACTTCGGCGCATCCTTTTGCCCTTGTACGAAGTCGA
TGACTTGCGAGATGCATTTCGTATGTTGGGATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227286 representing NM_009645
Red=Cloning site Green=Tags(s)

MDSLLMKQKKFLYHFKNVRWAKGRHETYLCYVVKRRDSATSCSLDFGHLRNKSGCHVELLFLRYISDWDL
DPGRCYRVTWFTSWSPCYDCARHVAEFLRWNPNLSLRIFTARLYFCEDRKAEPEGLRRLHRAGVQIGIMT
FKDYFYCWNTFVENRERTFKAWEGLHENSVRLTRQLRRILLPLYEVDDLRDAFRMLGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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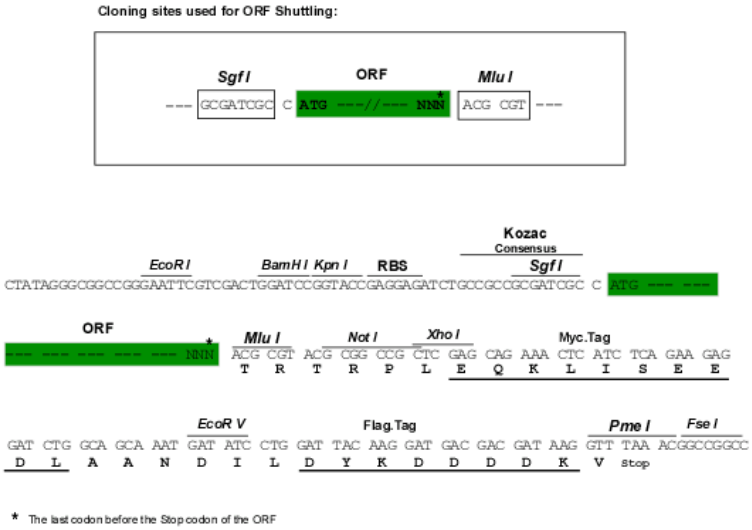
Chromatograms: https://cdn.origene.com/chromatograms/ja1334_e08.zip

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 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_009645.2, NP_033775.1

RefSeq Size: 2413 bp

RefSeq ORF: 597 bp

Locus ID: 11628

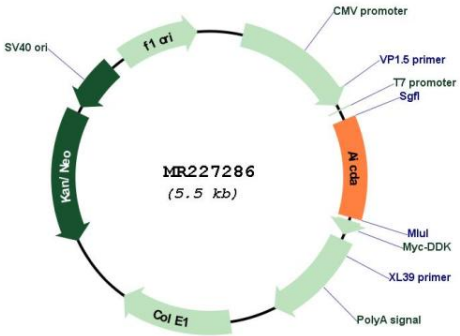
UniProt ID: Q9WVE0

Cytogenetics: 6 F1

MW: 24.5 kDa

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 MR227286